Hills *Home* **Hub**

Table of Contents

1. Hub and Accessories

The Hills Home Hub range of enclosures delivers a complete solution to suit the most demanding applications. Flexibility of mounting installation types and sizes ensure there is a Hills Home Hub enclosure solution tailored to meet your specific customer requirements. A modular design approach has been chosen for the 400, 600 & 1000 series enclosures, enabling compact placement of distribution modules and power supplies.

400 Series Surface Mounted Enclosure   600 Series Universal Mounted Enclosure   1000 Series Universal Mounted Enclosure

Hills Home Hub 400 Series
Surface Mount Enclosure

Features

↘ Surface mounted

↘ Provides the convenience of left or right-opening door

↘ Has a flexible equipment fixing design

↘ Supplied with a Hills Security System mounting bracket

↘ Ideal for apartments and smaller applications

Specifications

Dimensions: 480mmH x 370mmW x 110mmD
Material: Steel
Colour: Hills White (powder coated)
Lockable Cover: Yes
Tamper Protection: Yes (on security system bracket).Tamper switch sold separately.
Surface Mounted: Yes
Approximate Module Capacity: 6

Ordering Information

S3489   Kit with Power Supply
         HHH-400ES Hills Home Hub 400 Series Surface
         Enclosure
         HHH-4SMBS Hills Security Mounting Bracket - Surface
         HHH-4ACC Hub 400 Accessory Pack
         HPS-25W Hills Security and Ancillary Power Supply

400 Series Surface Mounted Enclosure

Mounting the Hills Home Hub 400 Series Surface Mount Enclosure

1. Place the enclosure against the wall in the position where you want to install it. Make allowance for cable entry points.
2. Mark pilot holes.
3. Remove the enclosure and drill pilot holes.
4. Put the enclosure in place, and fix it to the wall using appropriate screws for the material you are drilling and the weight of the finished system (15-20kgs).
5. Ground the enclosure. An M3 earth-bonding screw is located in the accessory pack and should be affixed to the hub enclosure base. Place an earth symbol sticker (included in the accessory pack) on the enclosure base adjacent to the earth-bonding screw. Attach a ground wire between this and an earth ground point.

Mounting holes

Ground Post

Hills 400 Series Surface Hub

Option: Mounting the Hills Security PCB

If utilising the security option within the enclosure:

1. Locate the 4 x PCB standoffs found in the accessory pack.
2. Attach these to the security bracket (pre-fitted inside the enclosure).
3. Align the Hills Security PCB with the standoffs and clip into place as shown.
4. Install a tamper switch as shown.

Option: Mounting locations for GPO's

6 mounting locations are provided for installation of GPO's as shown.

GPO Locations
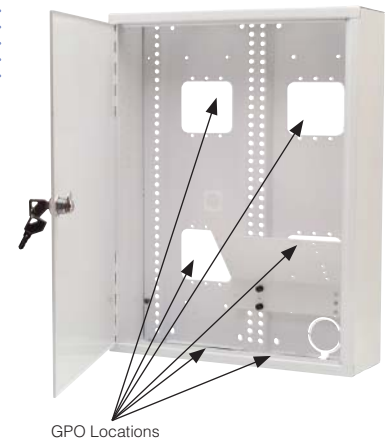
Hills Home Hub 400 Series
Flush Mount Enclosure

Features

↘ Can be concealed into most wall types including double brick and dry walls with a minimum of 90mm depth

↘ Provides the convenience of left or right-opening door

↘ Has a flexible equipment fixing design

↘ Supplied with a Hills Security System mounting bracket

↘ Ideal for apartments and smaller applications

Specifications

Dimensions: Back box: 480mmH x 365mmW x 88mmD
Surround frame: 540mmH x 415mmW
Material: Steel
Colour: Hills White (powder coated)
Lockable Cover: Yes
Tamper Protection: Yes (on security system bracket). Tamper Switch sold separately.
Cavity Mounted: Yes
Approximate Module Capacity: 6

Ordering Information

S2368   Kit with Power Supply
         HHH-400EF- Hills Home Hub 400 Series Flush Enclosure
         HHH-4SMBF - Hills Security Mounting Bracket - Flush
         HHH-4ACC - Hub 400 Accessory Pack
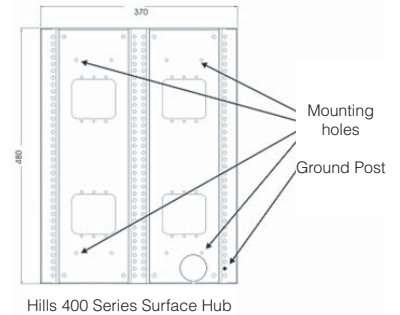   HPS-25W Hills Security and Ancillary Power Supply

400 Series Flush Mounted Enclosure

Mounting the Hills Home Hub 400 Series Flush Mount Enclosure

The Hills Home Hub – 400 Series Flush may be mounted in 90mm deep or greater plasterboard, brick or rendered wall.

1. Remove the front cover of the enclosure by unscrewing the four corner screws.
2. Place the enclosure against the wall in the position where you want to install it. Make allowance for cable entry points.
3. Make a mark on the wall studs through the centre of the elongated mounting holes.
4. Remove the enclosure and drill pilot holes.
5. Put the enclosure in place, and fix it to the wall using appropriate screws for the material you are drilling and the weight of the finished system (15-20kgs).
6. Ground the enclosure. An M3 earth-bonding screw is located in the accessory pack and should be affixed to the hub enclosure base. Place an earth symbol sticker (included in the accessory pack) on the enclosure base adjacent to the earth-bonding screw. Attach a grounding wire between this and an earth ground point.
7. Mount the front cover using the four corner screws.

## Option: Mounting the Hills Security PCB

If utilising the security option within the enclosure:

1. Locate the 4 x PCB standoffs found in the accessory pack.
2. Attach these to the security bracket (pre-fitted inside the enclosure).
3. Align the Hills Security PCB with the standoffs and clip into place as shown.
4. Install a tamper switch as shown.

Option: Mounting locations for GPO's

6 mounting locations are provided for installation of GPO's as shown.

Fasten Screws in Wall Studs

Ground Post

Hills 400 Series Flush Hub

GPO Locations

Install Information
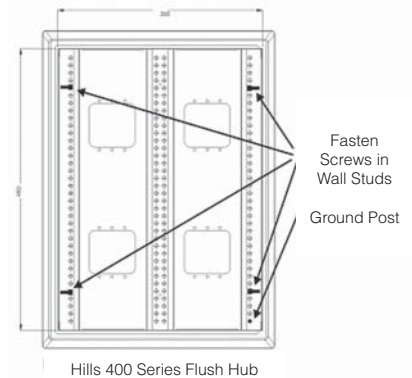
Hills Home Hub 600 Series Universal Mount Enclosure

Features

❯ Universal mounting (surface or flush mount)

❯ Can be concealed into most wall types including double brick walls and 70mm or 90mm depth dry wall

❯ Provides the convenience of left or right-opening door with the added benefit of simple door removal when servicing is required.

❯ Has a unique security system compartment designed to shield and protect (using a tamper system) the Hills Home Hub Security modules so that only authorised users can access them.

❯ Has a flexible equipment fixing design

❯ Low mounting bracket for fixing Hills Home Hub modules that require the maximum depth of the hub.

❯ High mounting bracket provides additional cable management facilities underneath the mounted Hills Home Hub modules, therefore doubling the available cabling space

Specifications

Dimensions: Back box: 600mmH x 405mmW x 110mmD
Surround frame: 701mmH x 506mmW
Material: Steel
Colour: Hills White (powder coated)
Lockable Cover: Yes
Tamper Protection: Yes. Tamper Switch Sold Separately
Cavity Mounted: Yes
Surface Mounted: Yes
Approximate Module Capacity: 8

Ordering Infomation

S3492   Kit with Power Supply
HHH-600E Hills Home Hub 600 Series Enclosure - Base
HHH-6SF Hills Home Hub 600 Series Surround Frame
HHH-6L Hills Home Hub 600 Series Lid
HHH-LMB Low Module Mounting Bracket
HHH-HMB High Module Mounting Bracket
HHH-6SMB Hills Security System Mounting Bracket
HHH-6SPC Hills Security System Protective Cover
HHH-6ACC Hub 600 Accessory Pack
HPS-25W Hills Security and Ancillary Power Supply

600 Series Flush Mounted enclosure

600 Series surface mount enclosure

Surface Mounting the Hills Home Hub 600 Series Enclosure

The Hills Home Hub may be surface mounted.

Surface Hub Dimensions: 600mmH x 405mmW x 110mmD

1. An M6 grounding post is provided with the accessory pack. Install the grounding post through the grounding post hole located in the middle of the enclosure. Place an earth symbol sticker (found in the accessory pack) on the enclosure base adjacent to the earth-bonding post.

2. Place the enclosure against the wall in the position where you want to install it. (Note that the enclosure may be heavy and care must be taken to minimise the risk of injury. Please seek assistance if required). Make allowance for cable entry positions.

3. Mark pilot holes.

4. Remove the enclosure and drill pilot holes.

5. Put the enclosure in place, and fix it to the wall using appropriate screws for the material you are drilling and the weight of the finished system.(15-20kgs)

6. Ground the enclosure.

7. Install chosen Hills Home Hub modules and terminate cables.

8. Affix the enclosure lid using the hinge slots provided (for left or right hand opening).
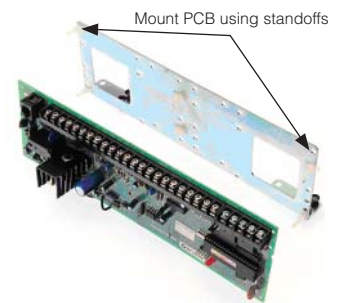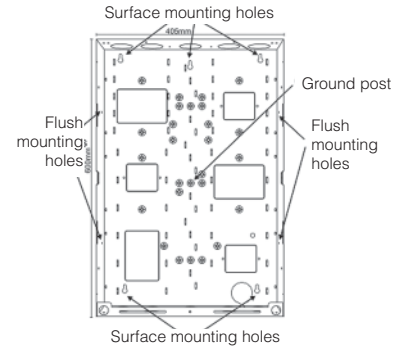
Option: Mounting the Hills Security PCB

If utilising the security option within the enclosure:

1. Remove the security cover by releasing the 2 plastic snap rivets (the enclosure lid must be removed first).

2. Locate the security mounting bracket and the 4 x plastic snap rivets found in the accessory pack.

3. Mount the security PCB onto the security mounting bracket using the 4 PCB standoffs found in the accessory pack.

4. Align the security mounting bracket with the holes on the low module mounting bracket within the security compartment and secure using the 4 plastic snap rivets.

5. Connect all ancillary devices to the security PCB (battery, sensors, code pads etc.).

6. Select a location for the tamper switch. There are 4 possible locations (2 on the security cover and 2 on the hub enclosure base). The 2 tamper switch locations on the security cover are for protection against security cover removal and/or removal of the hub enclosure from the wall (box tamper). The 2 tamper locations on the hub enclosure base are for protection against unauthorised opening of the enclosure lid (depending on left or right hand opening).

7. Install a tamper switch/es in the desired locations.

8. Replace the security cover.

Option: Mounting locations for GPO's

6 mounting locations are provided for GPO's as shown.

Surface mounting holes
405mm
Ground post
Flush mounting holes
Flush mounting holes
Surface mounting holes

Mount PCB using standoffs

Tamper Locations

A	B
B	A
A	B

GPO Locations

Locations marked "A" are for the placement of the hub enclosure base over an existing GPO. Locations marked "B" are for the installation of a new GPO into the hub enclosure base.

Install Information

Flush Mounting the Hills Home Hub 600 Series Enclosure

The Hills Home Hub may be optionally flush mounted in a 70mm or 90mm plasterboard, brick or rendered wall.

Flush Hub Dimensions:

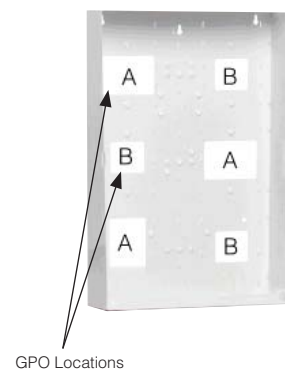Back Box: 600mmH x 405mmW x 110mmD

Surround: 701mmH x 506mW

1. An M6 grounding post is provided with the accessory pack. Install the grounding post through the grounding post hole located in the middle of the enclosure. Refer to diagram 3 for location. Place an earth symbol sticker (found in the accessory pack) on the enclosure base adjacent to the earth-bonding post.

2. Place the enclosure against the stud at the desired height. See diagram 2. (Note that the enclosure may be heavy and care must be taken to minimise the risk of injury. Please seek assistance if required) The enclosure must be mounted so that it is extruding 35mm - measured from the front face of the plasterboard to the front face edge of the enclosure. Refer to diagram 4. Make allowance for cable entry positions.

3. Make a mark on the wall studs through the centre of the flush mounting holes. Refer to diagram 3 for location.

4. Remove the enclosure and drill pilot holes.

5. Mount the enclosure in place, and fix it to the wall using appropriate screws for the material you are drilling and the weight of the finished system (15-20kgs). Wood screws are supplied in the accessory pack.

6. Remove the security cover by releasing the 2 plastic snap rivets

7. Attach the enclosure frame using the provided screws found in the accessory pack.

8. Ground the enclosure.

9. Install chosen Hills Home Hub modules and terminate cables.

10. Replace the security cover.

11. Affix the enclosure lid using the hinge slots provided (for left or right hand opening).

Wall Stud →

Front face of plasterboard

Hills Home Hub - Series

Leave 35 mm of the 600 series Hub extruding - measuring from the front face of the plasterboard to the front face edge of the 600 series Hub.

Install Information
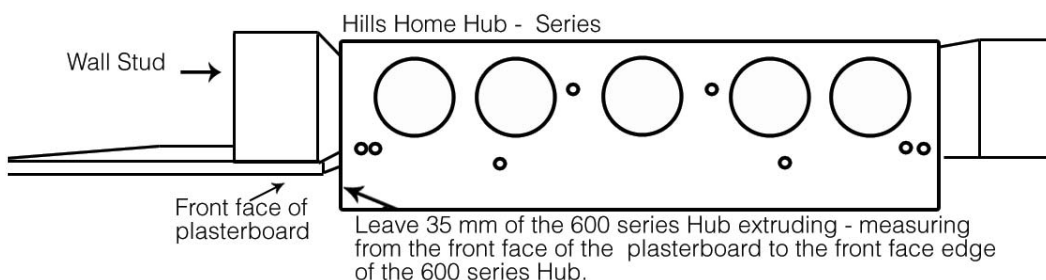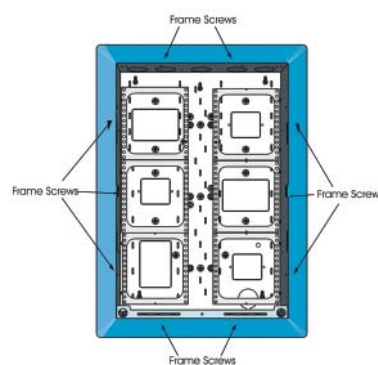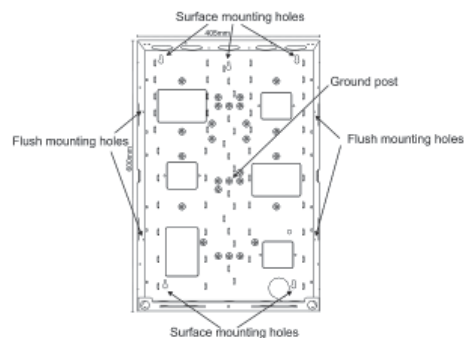
Hills Home Hub 1000 Series Universal Mount Enclosure

Features

↘ Universal mounting (flush or surface)

↘ Can be concealed in most wall types including double brick walls with 90mm depth or greater

↘ Removable door for installation convenience

↘ Has flexible equipment fixing design

Specifications

Dimensions:Back Box: 1066mmH x 362mmW x 100mm D

Cover: 1105mmH x 400mmW

Material: Steel

Colour: Hills White (powder coated)

Cavity Mounted: Yes

Surface Mounted: Yes

Approximate Modules: 16

Ordering Information

S3494   Kit with Power Supply
         HHH-1000E 1000 Series Universal Mount Enclosure
         HPS-25W Hillls Security and Ancillary Power Supply

1000 Series Universal
Mounted Ensclosure

Mounting the 1000 Series Hills Home Hub Enclosure

1. Using the mounting tabs or side slots to mount the enclosure between the stubs, or using mounting holes provided in the back of the unit for surface mounting. NB. Be sure to leave enough space both on the top and bottom of the unit for wire routing and the "UP" arrow should face to the top. (Fig 1)

2. When using the side slots, position the enclosure with the front to protrude beyond the wallboard surface, which will match the finished wall. Mark the center of the mounting slots, this allows for further adjustment to match the finished wall. Drill pilot holes and install the enclosure with wood screws. When using the mounting tabs, select the proper holes (A-5/8", B-1/2" or C-3/8") for wallboard. When using the mounting holes, attach the unit to the wall with screw anchors recommended to support the weight of the enclosure and variety of modules. (Fig 2)

Cable Installation

Remove the knockouts which can be found on the top, bottom, sides and back of the enclosure as needed for wiring. Insert a screwdriver into the slot and bend to break the knockout. Insert the plastic grommets in the opening to protect cables from being damaged. (Fig 3)

Grounding the Enclosure

The grounding screw is located inside the bottom of the enclosure. A grounding wire is needed and should be connected securely between the grounding screw and an earth ground point. (Fig 4)

Installing the Cover

Hook the cover on the enclosure then screw it via mounting holes on the cover. (Fig 5)

Cable Management

Using the cable ties provided, group and attach the wires at the side grids of the enclosure.(Fig 6)
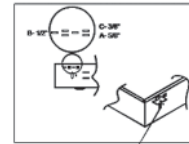
Fig 1
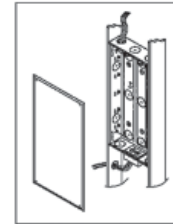
Fig 2
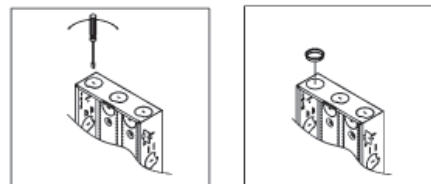
Fig 3
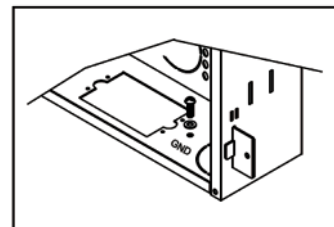
Fig 4
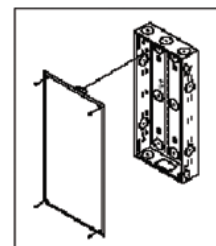
Fig 5
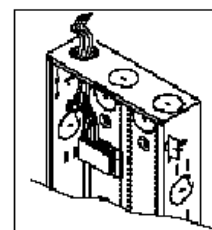
Fig 6

2. Security Modules

The NX-Series offers a range of security panels, from 4 zones up to 16, and expandable up to 48 zones. The NX-Series can use a combination of door and window sensors, smoke sensors, glassbreak sensors, and interior motion sensors to detect unauthorized entry. The code pad gives full control over the system and allows viewing of all devices with ease. With the NetworX NX-Series' built-in digital communicator, alarms can be immediately reported to an Alarm Monitoring Station, which is staffed 24 hours a day, ready to report a burglary, fire, or panic condition to the homeowner or the proper authorities. The NX16 supports keyless entry & door access control modules.

LCD Control Pad

NX Reader

Remote Keyfob

Reed Switch

Siren & Strobe

Security Panel PCB

Smoke Sensor

Cosmos Quad PIR

Hills Home Hub

NetworX NX-4

Features

↘ 4 fully programmable zones

↘ Hardwire/wireless hybrid

↘ All zones programmable as fire or burglary

↘ 31 customisable pre-configured zone types

↘ 8 user codes

↘ Up to 8 keypads

↘ 1 duress code

↘ Up/downloadable with competitor lockout

↘ Siren supervision

↘ Automatic arming with auto retry

↘ Fire alarm verification

↘ Dynamic battery test

↘ Contact ID format

↘ Event activated pager format

↘ Flexible auto-test reports

↘ Failure to communicate reporting

↘ Reports entering/exiting program mode

↘ Will communicate alarm events during programming 185 Event Log

↘ Includes date, time & event

↘ ITI wireless technology

↘ Up to 8 supervised wireless zones

↘ Keypad annunciation of alarm, tamper, low battery, and lost transmitter

Specifications

Operational power: 16.5VAC 40VA
Auxiliary power: 1 Amp max
Loop Resistance For standard loop: 300 Ohms maximum
Built-in siren driver: 2 tone (temporal & yelp)
Alarm Current Available: 2.5 Amp (if above driver is not used)
Loop response: 500ms
Operating temperature: (0° to 49°)C
Recommended Battery: Rechargeable12V 4Ah
Enclosure dimensions: 23cm W x 20cm H x 9cm D
Enclosure color: Belgian Grey
Shipping weight: 3.5kg

Ordering Information

S4695   NX-4 4 Zone Control Panel

For alarm product peripherals (like codepads, sensors, contacts etc refer to the Alarm Price Book.

NetworX NX- 8

Features

- 4 fully programmable zones
- Zone doubling to 8 zones option
- Hardwire/wireless hybrid
- All zones programmable as fire or burglary
- 31 customisable pre-configured zone types
- 8 user codes
- Up to 8 Keypads
- 1 duress code
- Up/downloadable with competitor lockout
- Swinger shutdown
- Siren supervision
- Automatic arming with auto retry
- Fire alarm verification
- Dynamic battery test

- Contact ID format
- Event activated pager format
- Flexible auto-test reports
- Failure to communicate reporting
- Reports entering/exiting program mode
- Will communicate alarm events during programming
- Includes date, time & event
- ITI wireless technology
- Up to 8 supervised wireless zones
- Keypad annunciation of alarm, tamper, low battery, and lost transmitter

Specifications

Operational power: 16.5VAC 40VA
Auxiliary power: 1 Amp max
Loop Resistance: For standard loop – 300 Ohms maximum
Built-in siren driver: 2 tone (temporal & yelp)
Alarm Current Available: 2.5 Amp (if above driver is not used)
Loop response: 500ms
Operating temperature: (0° to 49°)C
Recommended battery: Rechargeable 12V 4Ah
Enclosure dimensions: 23cm W x 20cm H x 9cm D
Enclosure color: Belgian Grey
Shipping weight: 3.5 kg

Ordering Information

S4697   NX-8 8 Zone Control Panel

For alarm product peripherals (like codepads, sensors, contacts etc refer to the Alarm Price Book.

NetworX NX-12

Features

- 6 fully programmable zones
- Zone doubling to 12 zones option
- Wireless expansion up to 16 zones
- All zones programmable as fire or burglary
- 2 true partitions
- Up/downloadable with competitor lockout
- 4 on-board outputs (47 events programmable by partition)
- Maximum 8 keypads per partition
- 2-wire or 4-wire smoke detectors
- Automatic arming with auto retry
- Assign zones to one or multiple partitions
- 40 user codes (4 or 6 digit)
- Up to 16 Keypads
- Built-in siren driver/voltage out
- Siren supervision Partitions
- 2 true partitions
- Separate account code for each partition

- User code assignment to multiple partitions
- Separate feature selections for each partition
- Independent entry/exit delays for each partition
- ITI wireless technology
- Up to 16 supervised wireless zones
- Keypad annunciation of alarm, tamper, low battery, and lost transmitter
- Dynamic battery test
- Telephone line monitor
- Contact ID format
- Event activated pager format
- Flexible auto-test reports
- Failure to communicate reporting
- Reports entering/exiting program mode
- Will communicate alarm events during programming 185 Event Log
- Includes date, time, event and partition number

Specifications

Operational power: 16.5VAC 40VA
Auxiliary power: 1 Amp
Loop Resistance: For standard loop – 300 Ohms maximum
               For 2-wire smokes – 30 Ohms Maximum
Built-in siren driver: 2 tone (temporal & yelp)
Alarm Current Available: 2.5 Amp (if above driver is not used)
Loop response: 500ms
Operating temperature: (0° to 49°)C
Recommended battery: Rechargeable 12V 6.5Ah
Enclosure dimensions: 28cm W x 28cm H x 9cm D
Enclosure colour: Belgian Grey
Shipping weight: 4 kg

Ordering Information

S4142   NX-12 12 Zone Control Panel

For alarm product peripherals (like codepads, sensors, contacts etc refer to the Alarm Price Book.

NetworX NX-16

Features

- Expandable to 48 fully programmable zones
- All zones programmable as fire or burglary
- Maximum 24 keypads
- Wireless expansion up to 48 zones
- Up/downloadable with competitor lockout
- 4 on-board outputs (47 events programmable by partition)
- Maximum 8 keypads per partition (24 max)
- 2-wire or 4-wire smoke detectors
- Assign zones to one or multiple partitions
- 99 four digit or 66 six digit user codes
- Up to 24 Keypads
- Built-in siren driver/voltage out
- Dynamic battery test
- Telephone line monitor
- Up to 8 true partitions
- Separate account code for each partition

- User code assignment to multiple partitions
- Separate feature selections for each partition
- Independent entry/exit delays for each partition
- Includes date, time, event and partition number
- Contact ID format
- Event activated pager format
- Flexible auto-test reports
- Failure to communicate reporting
- Reports entering/exiting program mode
- Will communicate alarm events during programming
- The NX-16 is expandable to 16 zones by zone doubling, or 48 zones with expander modules
- Box tamper input
- Separate auxiliary power supervision
- ITI wireless technology
- Up to 48 supervised wireless zones
- Keypad annunciation of alarm, tamper, low battery, and lost transmitter

Specifications

Operational power: 16.5VAC 40VA
Auxiliary power: 1 Amp
NX-320E power supply: 3 Amps
Loop Resistance: For standard loop – 300 Ohms maximum
For 2-wire smokes – 30 Ohms Maximum
Built-in siren driver: 2 tone (steady & yelp)
Alarm Current Available: 2.5 Amp (if above driver is not used)
Loop response: 500ms
Operating temperature: (0° to 49°)C
Recommended battery: Rechargeable 12V 6.5Ah
Enclosure dimensions: 28cm W x 28cm H x 9cm D
Enclosure color: Belgian Grey
Shipping weight: 4 kg

Ordering Information

S4133   NX-16 16 Zone Control Panel Only

For alarm product peripherals (like codepads, sensors, contacts etc refer to the Alarm Price Book.

3. Data and Phone Modules

The Hills Telephone Module series replaces two-pair telephone wire with current commercial-grade Category 5e cable, designed to meet the demands of telecom distribution of voice, fax, modem and other digital telephone services such as ISDN or DSL. Each HTM module supports up to 4 phone lines. Output connections are via RJ-45 plug or punch down twisted pair.

Companies have long enjoyed the benefits of sharing resources and improving communications by networking computers and peripherals together. The Hills Data Module puts this technology into the home. Families can now share an ultra-high speed internet connection such as cable modem, DSL or ISDN. The HDM patch panel connects to the Ethernet hub to activate the network.

Data/Patch Panel Phone System Unifone

Up to 8 phone extensions

Up to 4 Lines from Phone Company

Room Plate

HDM-808

Das Security System Mode 3 connection

Unifone

HTM-408S

Up to 8 Extensions

Up to 4 incoming lines

Power

Unifone PABX
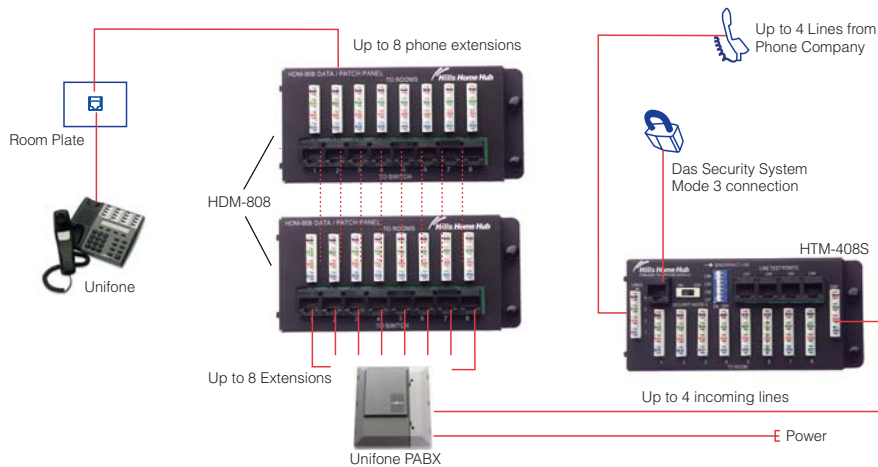
Data/Patch Panel Lan and Telephone

DSL Modem/Router

Wall Outlet

PC

Telephone

Up to 4 lines from phone company

Das Security System Mode 3 connection

HDM - 808

HDM - 408SRJ

DSL Filter
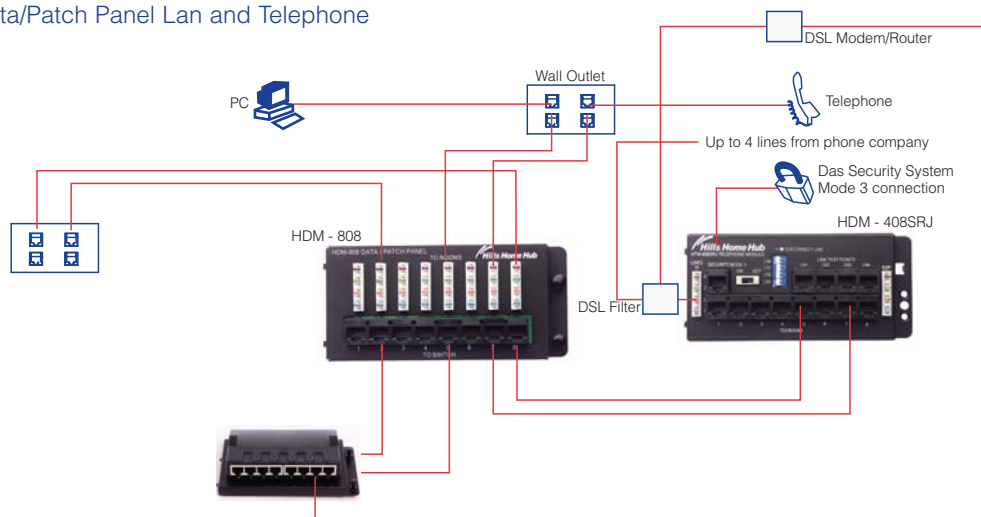
8 Port Patch Panel

Features

↘ Provides a network interface for LAN and telephone applications

↘ Supports Cat 5E

↘ 8 patch connection points

Specifications

Dimensions: 75mmH x 159mmW x 22mmD
Colour: Hills Black
Performance tested to Cat 5e specifications: Yes

Ordering Information

S2119   HDM-808 8 Port Computer Patch Panel

Ethernet Switch

Features

↘ 8 port 10/100 Ethernet switch

↘ Designed to provide network services for a small Local Area Network

↘ Compatible for connecting computer networks and Ethernet-based broadband internet services

↘ Power Supply included

Specifications

Dimensions: 102mmH x 159mmW x 30mmD
Colour: Hills Black
Auto-sensing: Yes
Standards Compliance: 10/100 Base T, IEEE 802.3, IEEE 802.3u
Operating Voltage: 12V DC

Ordering Information

S2240   HES-108 8 Port Ethernet Switch

Installing the 8 Port Patch Panel & Ethernet Switch

To install the module, simply insert tabs to the cap located on the rail of the enclosure. Press the fastener to lock the module at the desired position. (see Fig. 1)

Operation

Terminate the cables on the 4-pair 110/IDC connectors of this data/patch distribution module. Each Category 5e cable should be fully terminated on the contact blades. This module supports the TIA T568A wiring standard and is capable of connecting eight Category 5e cables. Identify which port you wish to activate and connect one end of a patch cord to the corresponding jack and the other end to the HES-108 Ethernet Hub. (see Fig. 2)

Wire installation

For the 110/IDC connector, follow the wire colour-code and only use the 110 punch-down tool to push the wire between the contact blades (see Fig. 3). For the RJ45 plug, follow the TIA T568A standard for wiring instructions (see Fig. 4). Patch Panel Module RJ-45 Jacks phone and data lines are wired according to the TIA T568A standard.

Fig 1

Step 1   Step 2

Fig 2

TO ROOM
WALL OUTLETS

HDM-808 DATA / PATCH MODULE   TO ROOMS   *Hills* Home Hub

1 2 3 4 5 6 7 8
TO SWITCH

ADSL MODEM

HES-108
ETHERNET SWITCH

DC 12V

HDM-808 DATA MODULE   TO ROOM   *Hills* Home Hub

1 2 3 4 5 6 7 8
TO SWITCH

HES-108
ETHERNET SWITCH

DC 12V

Fig 3

110/IDC TERMINATION DIAGRAM

PAIR 4 - BROWN
PAIR 4 - WHITE/BROWN
PAIR 3 - GREEN
PAIR 3 - WHITE/GREEN
PAIR 2 - ORANGE
PAIR 2 - WHITE/ORANGE
PAIR 1 - BLUE
PAIR 1 - WHITE/BLUE

Fig 4

PR2
PR3 PR1 PR4

1 2 3 4 5 6 7 8
T R T R T R T R

JACK TERMINATION DIAGRAM
PER TIA/EIA 568A
4 & 5 = PAIR 1
3 & 6 = PAIR 2
1 & 2 = PAIR 3
7 & 8 = PAIR 4

Patching Telephone Module

Features

↘ 4 telephone lines IN, 8 telephone locations OUT

↘ Built-in Security System Mode 3 connection

↘ Individual incoming line disconnection and test points

↘ 4 line expansion port

↘ Designed for telephone line patching

↘ 100 / Krone Compatible IDC Connectors for line input and expansion port output

Specifications
Dimensions: 75mmH x 159mmW x 22mmD
Colour: Hills Black
Performance tested to Cat 5 specifications: Yes

Ordering Information
S2463   HTM-408SRJ Patching Telephone Module

Punch Down Telephone Module

Features

↘ 4 telephone lines IN, 8 telephone locations OUT

↘ Built-in Security System Mode 3 connection

↘ Individual incoming line disconnection and test points

↘ 4 line expansion port

↘ Designed for telephone line punching

↘ 100 / Krone Compatible IDC Connectors for line input and expansion port output

Specifications
Dimensions: 75mmH x 159mmW x 22mmD
Colour: Hills Black
Performance tested to Cat 5 specifications : Yes

Ordering Information
S2120   HTM-408S Punch Down Telephone Module

Installing the Patching Telephone Module

To install the module, simply insert tabs to the cap located on the rail of the enclosure. Press the fastener to lock the module at the desired position. (see Fig. 1)
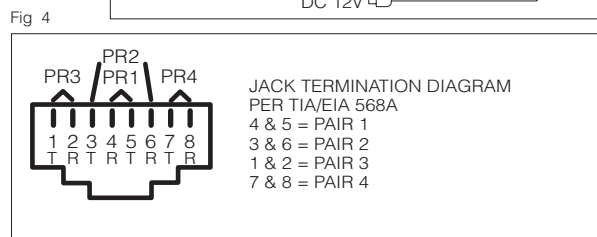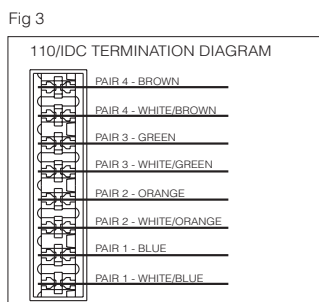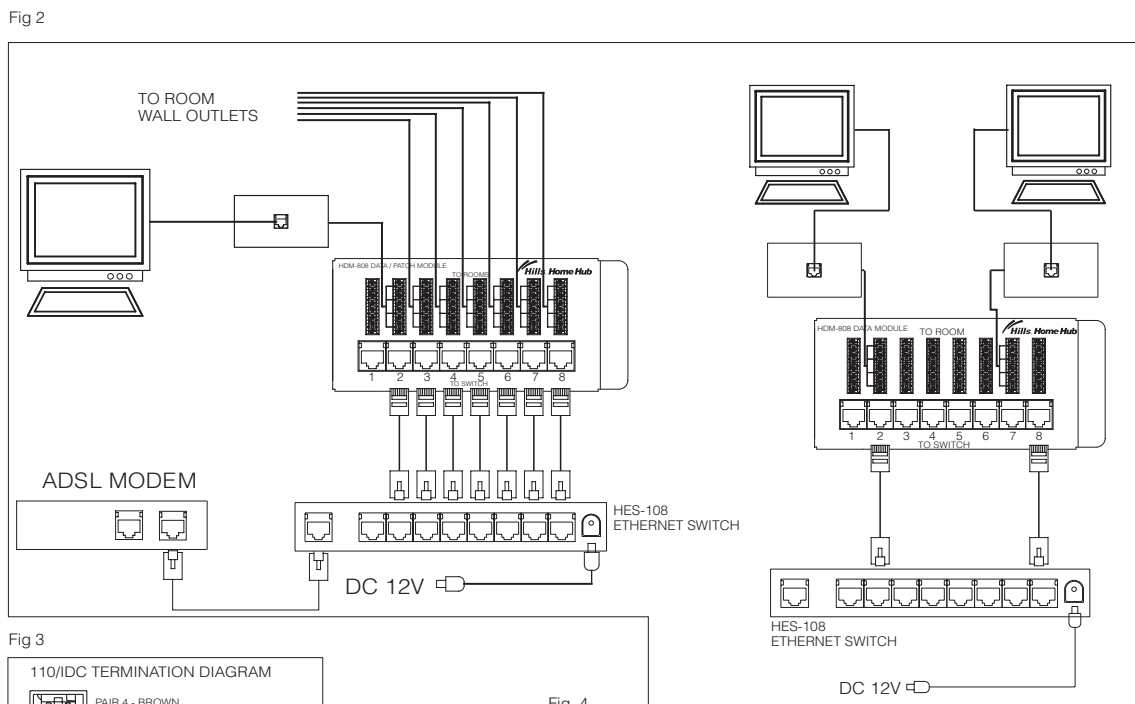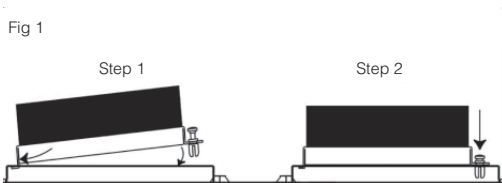
Operation

The Hills Home Hub® Telephone Module has a RJ45 socket labelled "LINES IN" to support four incoming phone lines from the telephone company and distribute them up to eight rooms. Patch the twisted pairs to each line that is required at each room. Blue & Orange/White Orange) to the first 110/IDC connector to support a 2-line phone. Follow the same procedure for each subsequent Room.
Note - Connect only one twisted pair of Cat5/Cat5e cable to each 110/IDC connector. (see Fig. 2)

Telephone Expansion

The RJ45 jack labelled "EXPANSION" is used to link another telephone distribution modules to support additional rooms.(see Fig 2)

Wire installation

For RJ-45 plug termination, follow the TIA -T568A standard for wiring instruction . (see Fig 2)

Fig 1

Step 1   Step 2

Fig 2

LN1 RETURN
LN1

Switch to ON when connecting a DAS Security system to the Security Mode-3 Jack. Always switch to OFF when no Security system is connected.

DAS SECURITY SYSTEM MODE-3
JACK TERMINATION DIAGRAM
4 & 5 = LINE 1 IN
3 & 6 = LINE 1 RETURN

3 4 5 6
T R T R

Lines in from Telephone Company

EXPANSION LINK
(one to one connection)

Do not connect the DAS Security system to this module when used as the the expansion module. Always switch to OFF.

To 8 wall Plates

To Extra wall plates

LN3 LN2 LN1 LN4

1 2 3 4 5 6 7 8
T R T R T R T R

JACK TERMINATION
DIAGRAM PER TIA/EIA T568A
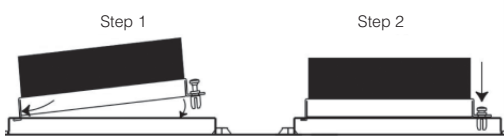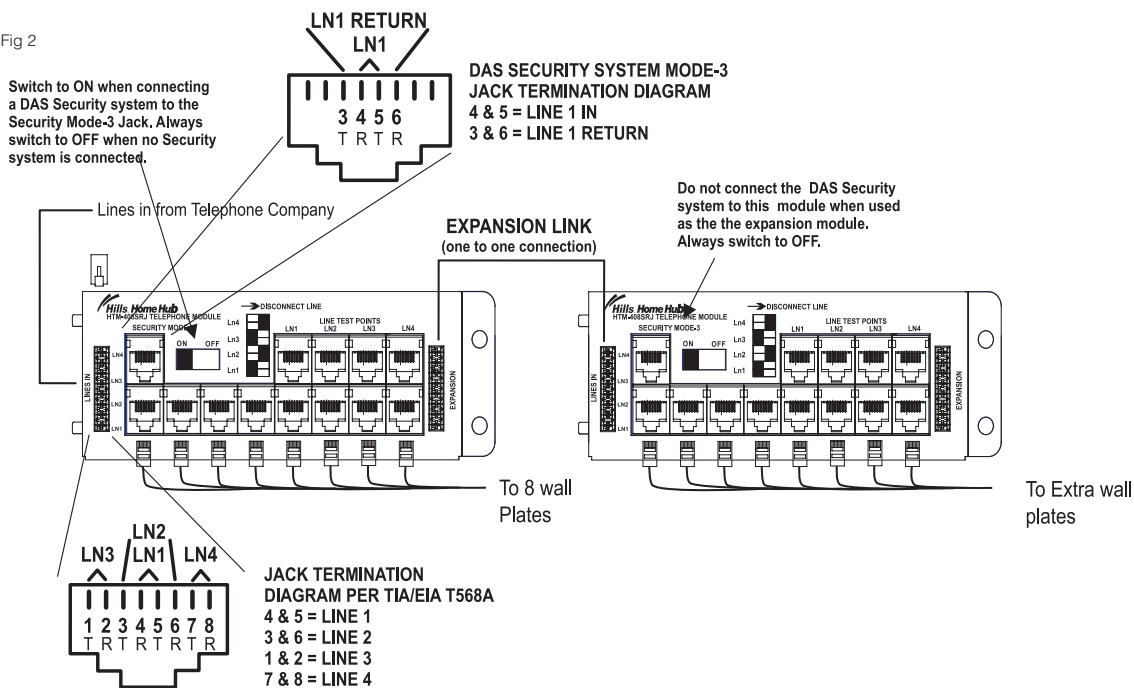4 & 5 = LINE 1
3 & 6 = LINE 2
1 & 2 = LINE 3
7 & 8 = LINE 4

Installing the Punch Down Telephone Module

To install the module, simply insert tabs to the cap located on the rail of the enclosure. Press the fastener to lock the module at the desired position.(see Fig. 1)

Operation

The Hills Home Hub® Telephone Module has a 110/IDC punch-down connector labelled "LINES IN" to support four incoming phone lines from the telephone company and distribute them up to eight rooms. Punch down the twisted pairs to each line that is required at each room.

Example: Each 110/IDC connector represents one Room, if you want to activate line #1 at Room #1, simply punch down the twisted pair (Blue/White Blue) to the first IDC/110 connector. If you want to use a 2-line phone (Line#1 & Line#2) at Room #1, simply punch down twisted pairs (Blue/White Blue & Orange/White Orange) to the first 110/IDC

connector to support a 2-line phone. Follow the same procedure for each subsequent Room.
Note - Connect only one twisted pair of Cat5/Cat5e cable to each 110/IDC connector. (see Fig. 2)

Telephone Expansion

There is a 110/IDC connector labelled "EXPANSION" which is used to link another telephone distribution modules to support additional rooms.(see Fig 2)

Wire installation

For 110/IDC connector termination follow the wire colour-code and only use the 110 punch-down tool to push the wire between the contact blades. For RJ-45 plug termination, follow the TIA T568A standard for wiring instruction. (see Fig 2)

Fig 1

Step 1   Step 2

Fig 2

LINE TO DAS SECURITY SYSTEM
Switch to ON when connecting a DAS Security system to the Security Mode-3 Jack. Always switch to OFF when no Security system is connected.

LN1 RETURN
LN1

SECURITY SYSTEMS MODE-3 JACK TERMINATION DIAGRAM
4 & 5 = LINE 1 IN
3 & 6 = LINE 1 RETURN

3 4 5 6
T R T R

LINES IN TEST JACK 1 TERMINATION DIAGRAM
4 & 5 = LINE 1
1 2 3 4 5 6 7 8
T R T R T R T R

LINES IN TEST JACK 2 TERMINATION DIAGRAM
4 & 5 = LINE 2
1 2 3 4 5 6 7 8
T R T R T R T R

LN3
LINES IN TEST JACK 3 TERMINATION DIAGRAM
4 & 5 = LINE 3
1 2 3 4 5 6 7 8
T R T R T R T R

LN4
LINES IN TEST JACK 4 TERMINATION DIAGRAM
4 & 5 = LINE 4
1 2 3 4 5 6 7 8
T R T R T R T R

LN 4 - BROWN
LN 4 - WHITE/BROWN
LN 3 - GREEN
LN 3 - WHITE/GREEN
LN 2 - ORANGE
LN 2 - WHITE/ORANGE
LN 1 - BLUE
LN 1 - WHITE/BLUE

110/IDC TERMINATION DIAGRAM
LINE 1 / SECURITY WHITE/BLUE - BLUE
LINE 2 WHITE/ORANGE - ORANGE
LINE 3 WHITE/GREEN - GREEN
LINE 4 WHITE/BROWN - BROWN

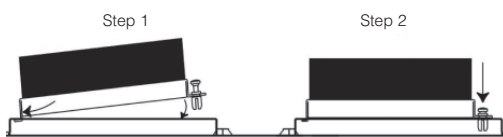LINES IN FROM TELEPHONE COMPANY
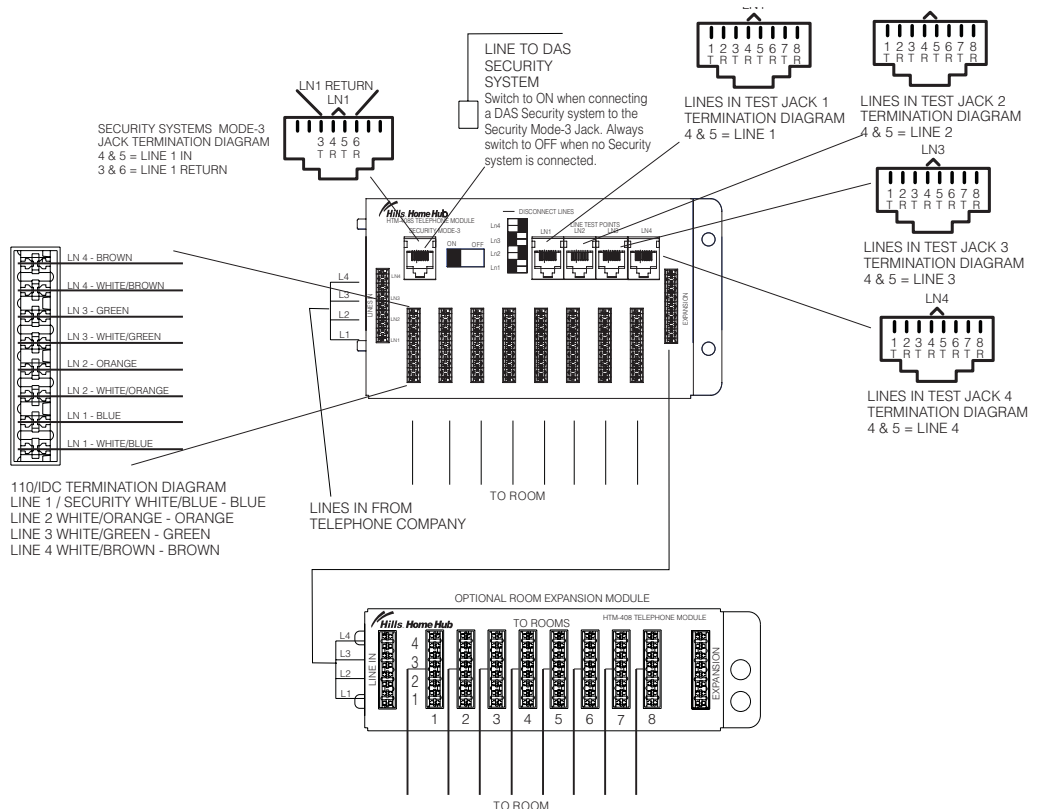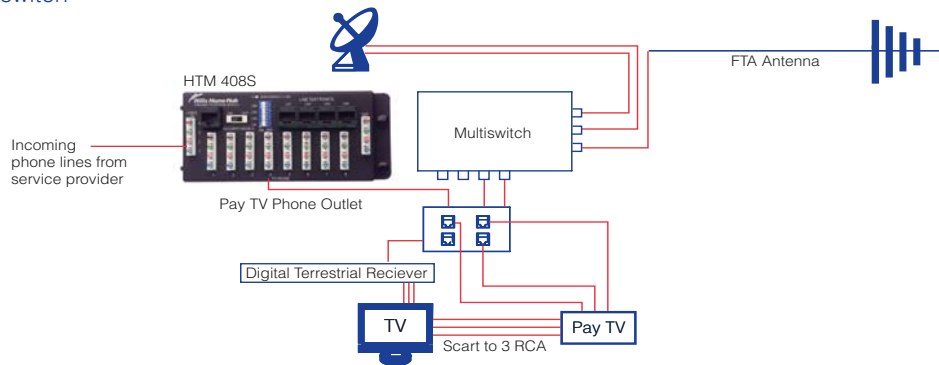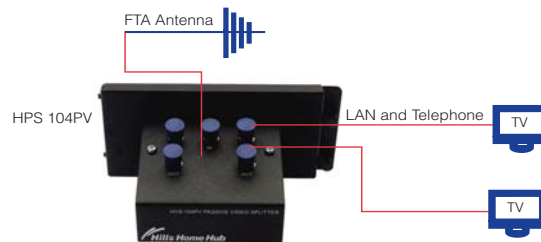
TO ROOM

OPTIONAL ROOM EXPANSION MODULE

TO ROOM

4. Video Modules

The video distribution modules cater for a broad range of services including CATV, FTA Antenna TV, Satellite and Pay TV services. Modulators allow multi-room broadcast of your DVD, VCR, Pay TV and cameras from a single location to your entire distribution network, which can be controlled from any remote location.

Multiswitch

- HTM 408S
- Incoming phone lines from service provider
- Pay TV Phone Outlet
- FTA Antenna
- Multiswitch
- Digital Terrestrial Reciever
- TV
- Pay TV
- Scart to 3 RCA

Passive Splitter

- FTA Antenna
- HPS 104PV
- LAN and Telephone
- TV
- TV

Active Splitter

- 4 Ch Modulator
- DVD
- Emitter
- Power Supply
- (optional)
- FTA Antenna
- RG6Q
- TV
- HAS 206
- IR Target
- RG6Q
- RG6Q
- RG6Q
- TV
- Single Ch Modulator HVM-101M
- RG6Q
- HPS-25W18AC
- Remote Control
- RG59
- HPS-25W18AC or HPS 60W
- Camera

Hills Home Hub
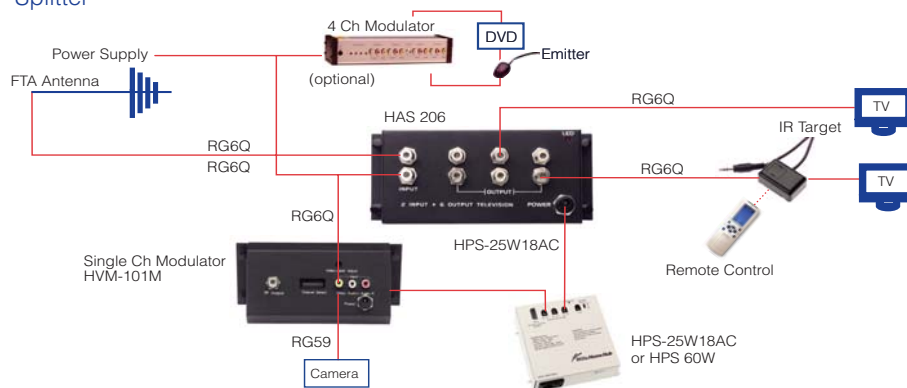
4 Location Passive Splitter

Features

↘ Passive video splitter module used to route Free-to-Air, CATV, modulator and satellite signals to multiple locations

↘ Vertical mounting

↘ Suitable for 600 series, 1000 series hub and 400 series surface mount hub only

↘ Digital TV compatible

Specifications

Dimensions: 102mmH x 159mmW x 100mmD
Colour: Hills Black
Input Frequency Range: 5MHz - 2300MHz

Ordering Information

S2126   HVS-104PV Passive Splitter - 1 IN 4 OUT

6 Location Active Video Splitter

Features

↘ 2 F-type connector inputs (one with DC power-pass) & 6 F-type connector active outputs

↘ Inputs are capable of accepting signals from Free-to-Air, CATV modulators and security cameras

↘ Digital TV compatible

Specifications

Dimensions: 72.5mmH x 165mmW x 25mmD
Frequency Range: 40MHz - 1000MHz
Max. Input Level: 83dBuV
RF Output level: 100dBuV
Output Gain: >=7dB
RF Return Loss: >=10dB
Power: 12V DC @ 500mA

Ordering Information

S2707   HAS-206 Active Video Splitter - 2 IN 6 OUT

Installing the 4 Location
Passive Splitter

This Hills Home Hub ® Passive Video Splitter Module is used to route the antenna signal, Satellite TV or Cable TV to multiple locations. The Hills Home Hub® HVS-306AIR Active Splitter Video Amplifier Module may be required when the RF signal must travel over longer cable distances. To install the module, simply insert tabs to the cap located on the rail of the enclosure. Press the fastener to lock the module at the desired position. (see Fig. 1)

Operation

Use only RG-6Q Quad shield Coax cable. A video source is connected to the "IN" port located in the center of the splitter. OUTPUT ports can route the input RF signal to up to four locations.
It is recommend that unused output ports should be capped with 75ohm terminator. (see Fig. 2)
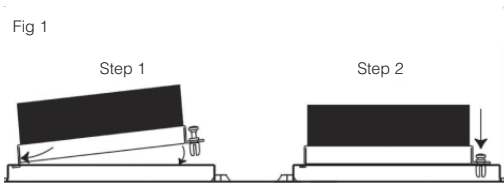
Fig 1

Step 1   Step 2

Fig 2

FROM ANTENNA / SATELLITE / CABLE

OUT   OUT

IN

OUT   OUT

T V

TO TV OUTLETS

TO TV OUTLETS

T V

TO TV OUTLETS

Install Information
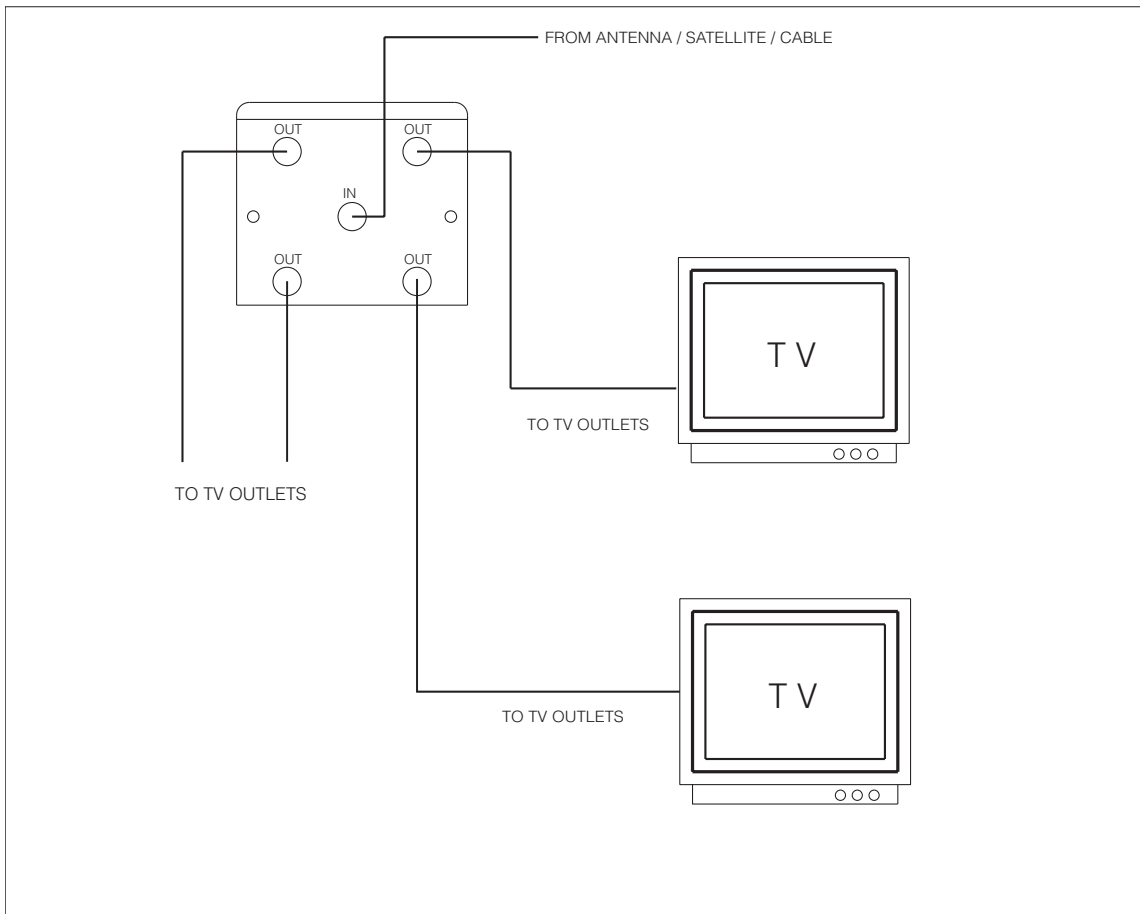
Installing the 6 Location Active Splitter and the Single Channel Video Modulator

To install the modules, simply insert tabs to the cap lcoated on the rail of the enclosure. Press the fastener to lock the module at the desired position. Refer to Fig 1.
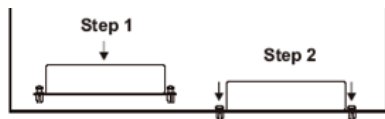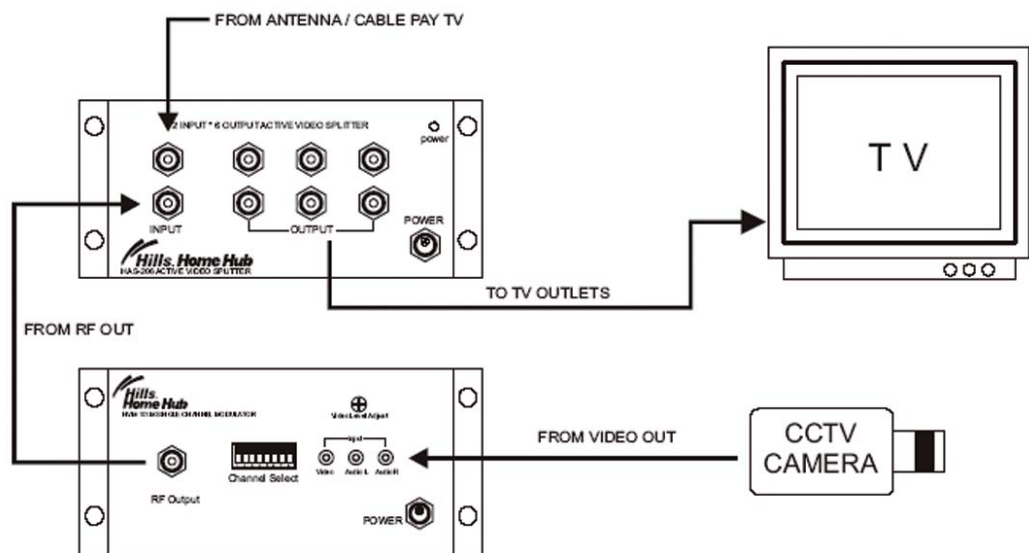
Refer to Fig 2 for wiring diagram.

Fig 1

Fig 2

6 Location Active RF Splitter With IR

Features

↘ 3 F-type connector inputs (with one DC power-pass) &
6 F-type connector active outputs

↘ F-type inputs are capable of accepting signals from Free-to-Air, CATV modulators and security cameras

↘ Infrared remote control return path

↘ Digital TV compatible

Specifications

Dimensions: 75mmH x 150mmW x 161mmD
Input Frequency Range: 40MHz - 860MHz
Gain: 12dB FTA input port
                       9dB CATV and auxiliary port
Input / Output Impedance: 75W
Return Loss: > 15dB typ.
Port to Port Isolation: > 15dB
Maximum Output Level: 100dBuV(DIN 45004, IM52dB; each port)
Power: 12V DC @ 500mA

Ordering Information

S3437   Active Splitter - 3 IN x 6 OUT with IR

Single Channel Video Modulator

Features

↘ PAL TV modulation

↘ Ideal for use with VCR's, DVD players and security cameras

↘ Connector for TV signal

↘ RCA connectors for audio and video signals

↘ Mono audio modulation

Specifications

Dimensions: 76mmH x 165mmW x 59mmD
Input Frequency Range: 470MHz - 825MHz
RF Output Level: >=68dBuV
Audio Modulation: Mono
Power: 12V DC @ 500mA

Ordering Information

S2708   HVM-101M Single Channel Video Modulator

Installing the 6 Location Active
RF Splitter With IR
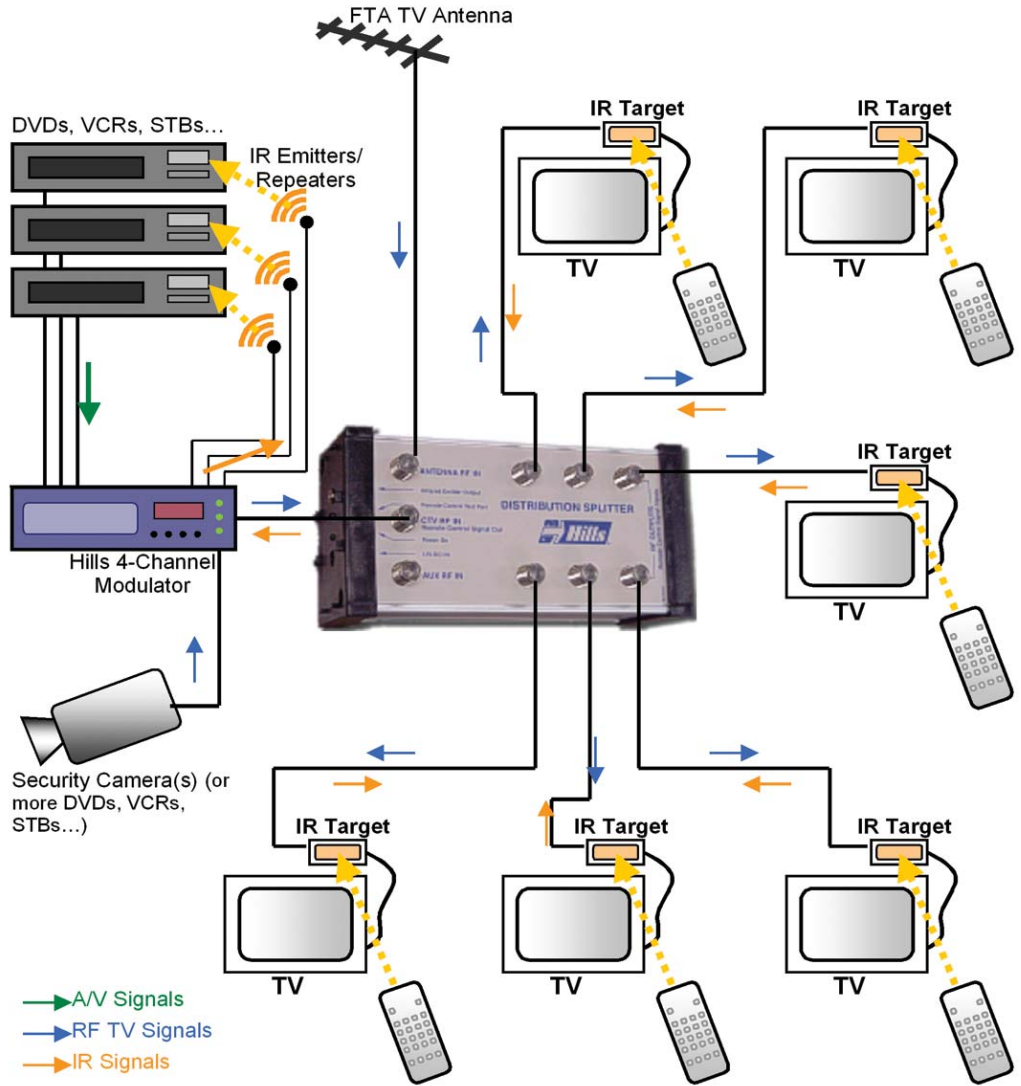
FTA TV Antenna

DVDs, VCRs, STBs...

IR Emitters/
Repeaters

IR Target

IR Target

IR Target

IR Target

IR Target

IR Target

IR Target

IR Target

TV

TV

TV

TV

TV

TV

TV

TV

Hills 4-Channel
Modulator

ANTENNA RF IN

DISTRIBUTION SPLITTER

CTV RF IN

MIX RF IN

Hills

Security Camera(s) (or
more DVDs, VCRs,
STBs...)

A/V Signals
RF TV Signals
IR Signals

4 Channel Video Modulator

Features

↘ PAL TV modulation

↘ Ideal for use with VCR's, DVD players and security cameras

↘ Up to 8 IR emitters

↘ F type connector output for TV signal

↘ 4 sets of 3 x RCA connectors for audio and video signals

↘ Mono audio modulation

↘ Plug pack supplied

Front

Back

Specifications

Dimensions: 49mmH x 268mmW x 75mmD
Input Frequency Range: 520MHz - 820MHz (CH27 - CH69),
Each channel independently programmable
Output Level: 75dBuV
Input / Output Impedance: 75W
Return Loss: > 12dB typ.
Power: 12V DC @ 500mA

Ordering Information

HI2014   4 Channel Video Modulator

Installing the 4 Channel Video Modulator

DVDs, VCRs, STBs...

IR Emitters/
Repeaters

FTA TV Antenna

IR Target

IR Target

IR Target

TV

TV

TV

Hills Home
Distribution
Splitter

DC 12V   IR REPEATERS   CHANNEL A   CHANNEL B   OUTPUT   CHANNEL C   CHANNEL D

L   R   IR   L   R   L   R   IR   L   R

AUDIO   VIDEO   AUDIO   VIDEO   AUDIO   VIDEO   AUDIO   VIDEO

Security Camera(s) (or
more DVDs, VCRs,
STBs...)

IR Target   IR Target   IR Target

TV   TV   TV

➤ A/V Signals
➤ RF TV Signals
➤ IR Signals
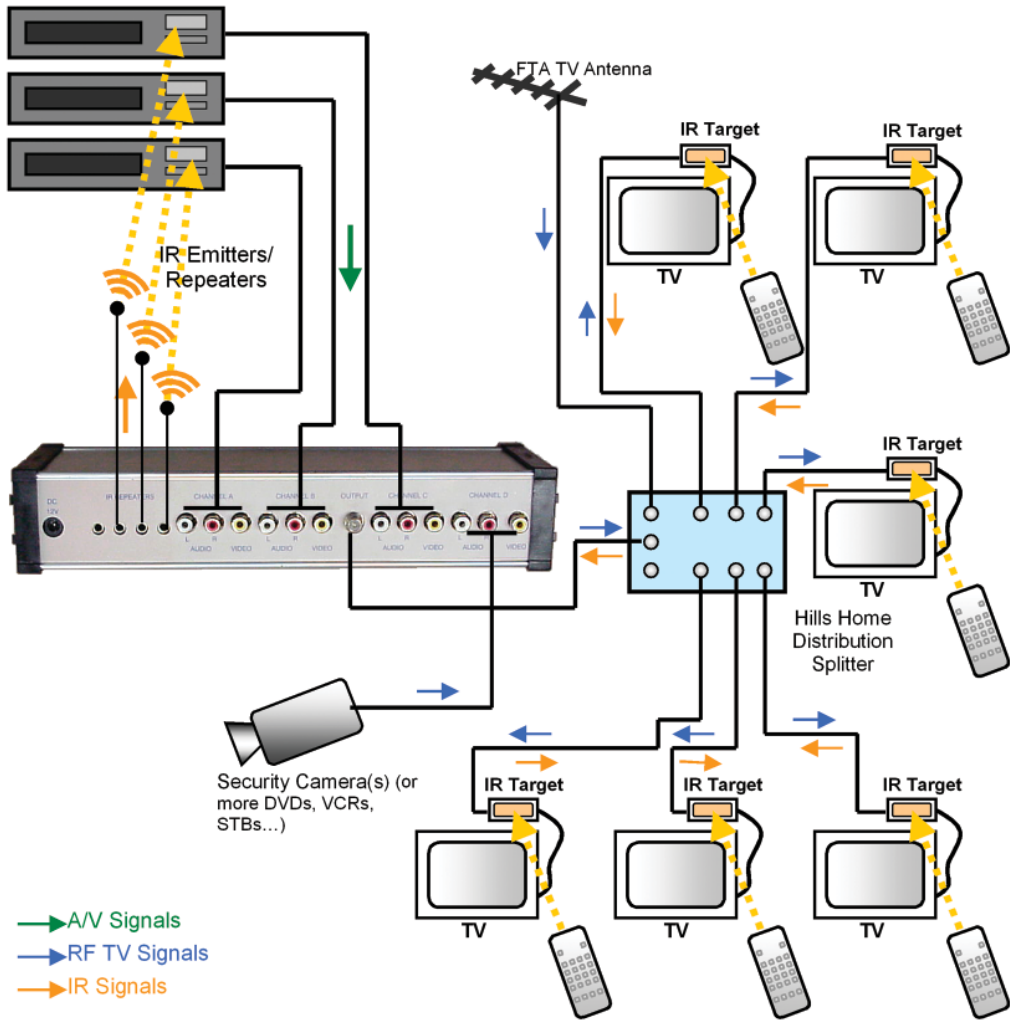
2 Input 4 Output Multiswitch & Mounting Plate

Features

↘ Digital & analogue compatible

↘ Earth attachment point

↘ Foxtel approval F10279

↘ F type connector output for TV signal

Specifications

Inputs:Horizontal / Vertical
Subscriber Connections: 7286- 4 Ports
                         7285- 8 ports
IF Frequency Range: 950-2050 MHz
Through Los @ 950 MHz:0 dB ± 2 dB
Through Los @ 2050 MHz: +5 dB ± 2 dB
Max IF Input Level: 96 dBµV@950 MHz / 91 dBµV@2050 MHz
Max IF Output Level - IMA3 (DIN EN 50083-3): 98dBµV
Return Loss Inputs: >10 dB
Return Loss Outputs: >10 dB
Isolation Between H/V: >25 dB
Isolation Port to Port: >25 dB
Supply Voltage: Via STU
Max. Current from receiver: 50 mA + LNB
Max. Current consumption: 50 mA
Max. Current to LNB: 500 mA
Control (Selection LNB Polarity): 14 - 16 V
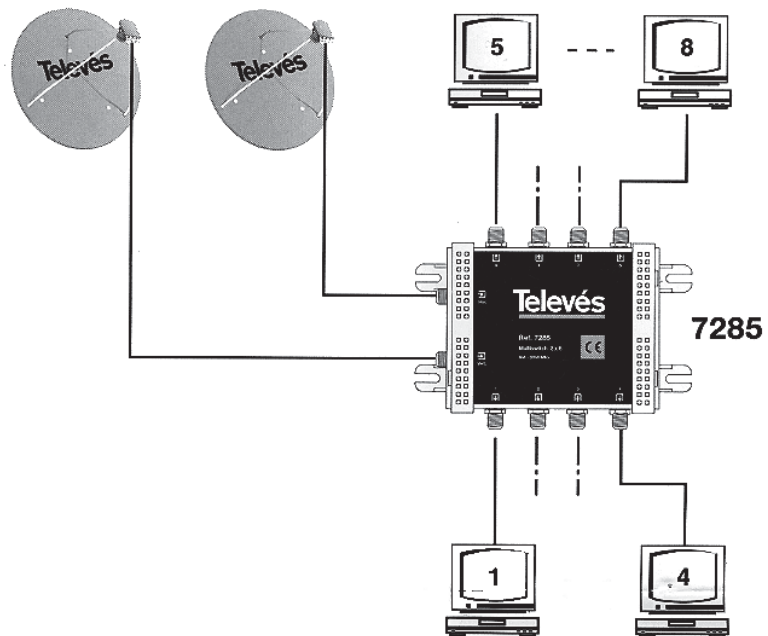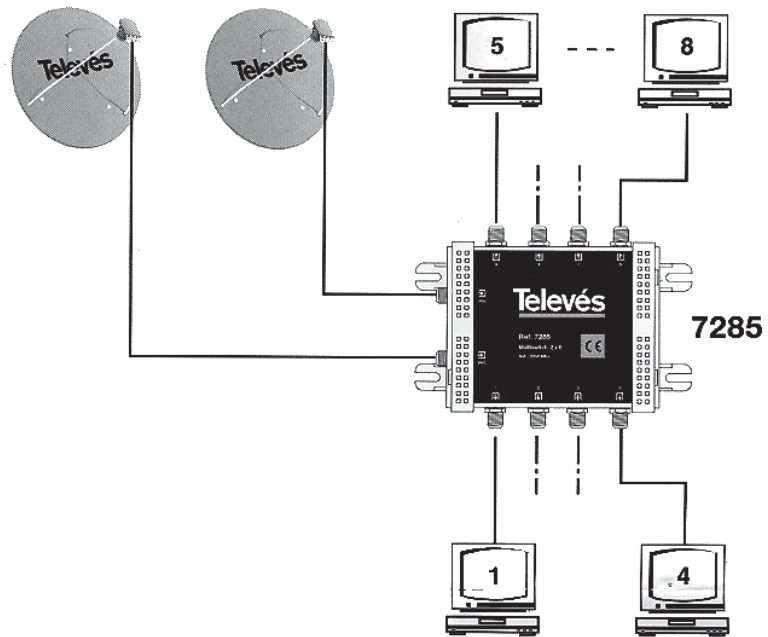Temperature Range: -20.....+60 °C
Protection index: IP 20

Ordering Information

S3435   2 Input 4 Output Multiswitch & Mounting Plate

Installing the 2 Input 4 Output
Multi-Switch & Mounting plate

Typical appliations
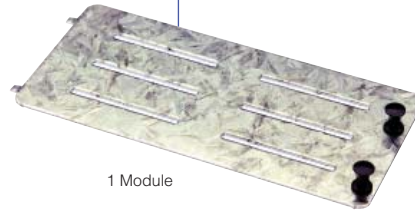
Accessory Plate

Features

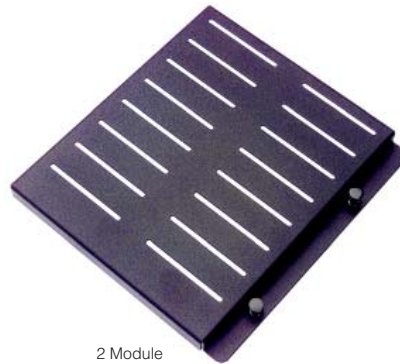↘ Universal Accessory Mounting Plate - 1 Module / 2 Module

Specifications

Dimensions:	1 Module: 158mm x 74mmH
	2 Module: 160mm x 178mmH
Colour:	1 Module: Anodised Sliver
	2 Module: Hills black

Ordering Information

S3419   HBK - 1001 Hub Accessory Plate - 1
S2127   HBK - 1002 Hub Accessory Plate - 2

1 Module

2 Module

Din Rail Enclosure

Features

↘ Provides an Australian and New Zealand safety approved facility to mount 240 volt rated electrical equipment such as circuit breakers, intelligent lighting, relays / dimmers and any other DIN rail mounted equipment requiring 240 volt isolation.

↘ Available in 10 and 12 DIN

Specifications

Dimensions: 10 DIN: 165mmW x 179mmH x 60mmD
               12 DIN: 165mmW x 220mmH x 60mmD
Material: Anodised Steel
Colour: Hills Silver

Ordering Information

S2204   12 DIN Electrical Cover
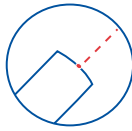S2205   10 DIN Electrical Cover

10 Din Electrical Cover

12 Din Electrical Cover

Din Module Accessories

5. Infrared Modules

The Infrared control system is designed for family members to remotely control any electronic device such as Audio Receiver, DVD, VCR, Satellite etc via an IR network. With the built-in Cat5/Cat5e cable, users can easily install the IR Emitter, IR Receiver and IR Distribution Module as a complete whole IR control system.

The IR Receiver receives IR signals from handheld remote controls and delivers these to the IR Emitter via the IR Distribution Module. Its special connector allows for easy insertion of IR distribution cable. The IR Module supports four/eight IR applications, and users can add another IR Module using the IR expansion port if required.
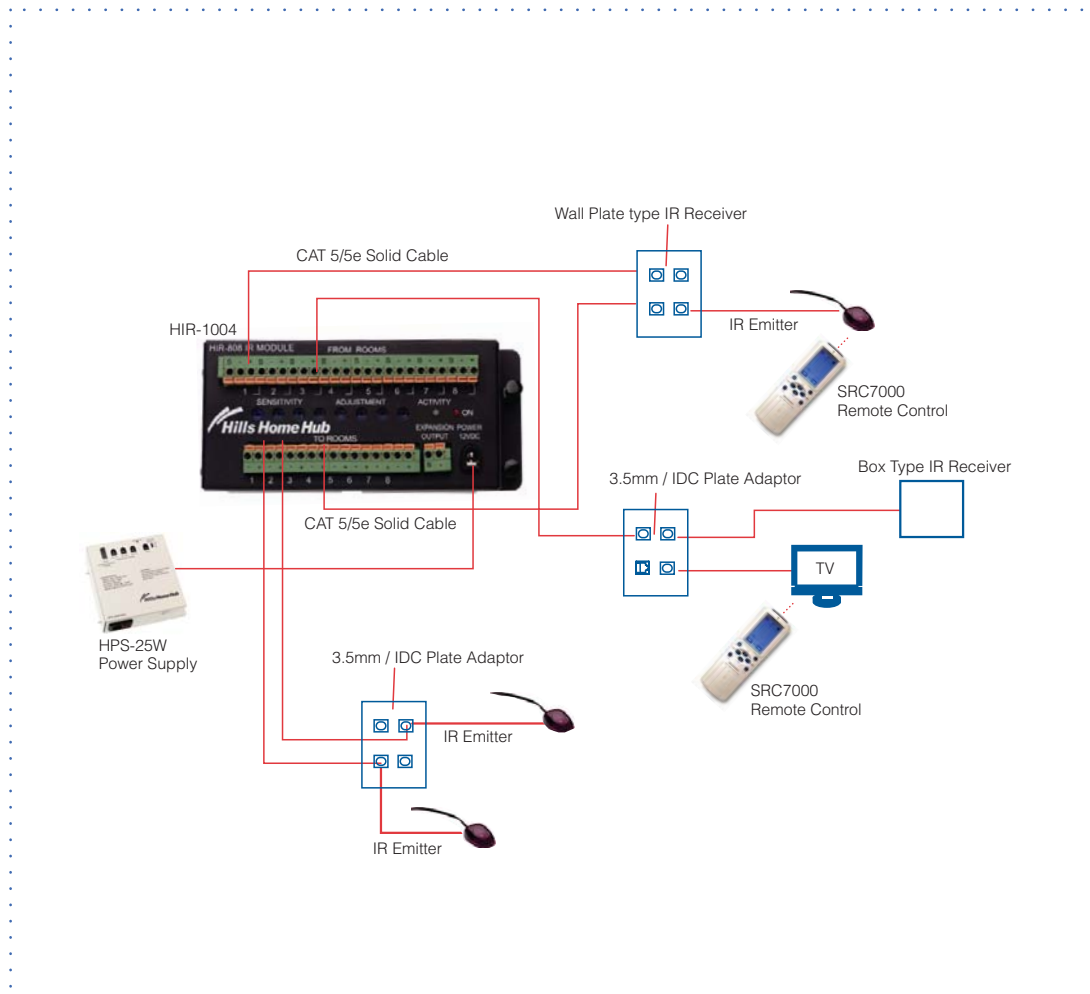
IR Distribution Module

Features

↘ Enables the remote control of electronic equipment such as DVD's, VCR's, Pay TV Set Top Boxes and AV Receivers via an IR network

↘ Receives IR signals from up to 8 remote IR receiver locations then distributes those signals to 8 IR emitter locations for equipment control

↘ Distributed via Cat5e cables to specified wall outlet locations

Specifications

Dimensions: 76mmH x 165mmW x 22mmD
Power: 12V DC @ 250mA
Max No. of Controlled Devices: 16 (with dual emitters)
Max. Input Locations: 8
Connector Type: Press fit terminal block
Expansion Port: Yes

Ordering info

S2124   HIR-808 8 Zone IR Module
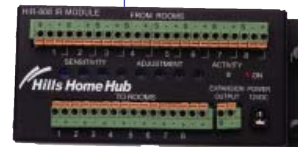
IR Emitter

Features

↘ Receives IR signals from the IR distribution module and sends them to the electronic device

↘ Adhesive tape included for attachment to IR sensor window of controlled device

↘ Supplied with 3.5mm plug to fit into Hills S2689 C type or S2688 H type 3.5mm + IDC Mech

↘ Dual port emitter wired in parallel

Specifications

Length of Wire: 3m

Ordering info

S3416   HEM-1 IR Emitter - Single Output
S3417   HEM-2 IR Emitter - Dual Output

Installing the IR Distribution Module

To install the modules, simply insert tabs to the cap lcoated on the rail of the enclosure. Press the fastener to lock the module at the desired position. Refer to Fig 1.

Operation

There are two rows of terminal blocks on this module. The top row has the IR Receiver blocks labelled "From Rooms" they are used to connect IR Receivers. The bottom row featuer the IR Emitter blocks labelled "To Rooms", they are used to connect IR Emitters. (see Fig. 2)

Connecting the IR Receiver

Each set of IR Receiver block has three terminals which are labelled "S", "-" and "+". Strip wire (CAT5/CAT5e Solid Cable) ends 4mm and insert into this terminal block according to the following wire instruction for IR Receiver connection: "S" = White Orange, "+" = White Brown, "-" = Brown.
Note - It is advisable to maintain identical cable colour coding for "S", "-" and "+" for all IR Receiver blocks.

Connect the IR Emitter

Each set of IR Emitter block has two terminals which are "-" and "+". Strip wire cable (CAT5/CAT5e Solid Cable) ends 4mm and insert into this terminal block according to the following wire instruction for IR Emitter connection: "+" = White Green, "-" = Green.
Note - It is advisable to maintain identical cable colour coding for "+" and "-" between IR Emitter Adapter and IR Emitter block.

Apply a 12VDC power adapter to this IR Distribution Module and your IR system is ready to go. A power cord is included for connections to the (HPS-25W18AC or HPS-60W) Hills Home Hub® power supplies. Simply connect both ends to the proper DC sockets.

Sensitivity Adjustment

There is a gain/sensitivity adjustment used for tuning the amplified level. To adjust for different cable losses you can use sensitivity adjust to increase the gain and get appropriate signal levels.

IR Receiver (HRM-1) & IR Emitter HEM-1)

The IR Receiver (HRM-1) receives IR signals from a handheld remote control and transmits to all IR emitter (HEM-1) to control corresponding electronic devices. The transmission media is CAT 5 or CAT 5e cable. Point the handheld remote control to the IR Receiver so that the IR receiver has a straight view to receive the signal. The distance between the IR Receiver and the remote control should not exceed 5 metres.
Note - it is recommended you install ONLY ONE IR Receiver per room.

IR Expansion Method

The Expansion Output port is used to control additional audio or video devices or to allow more rooms to control audio or video devices when applications go beyond eight. Simply connect the terminals "S" and "-" from the Expansion Output of the first HIR-808 IR Distribution Module into anyone of the IR Receiver block terminal of the additional HIR-808 IR Distribution Module.

Fig 1

Step 1   Step 2

Fig 2

HRM-1 IR Receiver

3.5mm IR ADAPTER

Cat5/5e SOLID CABLE

HIR-808 IR MODULE

8 PORT IR EMITTER

DC Power Module or DC 12V Adapter (OPTIONAL)

Cat5/5e SOLID CABLE

HEM-1 IR EMITTER

3.5mm IR ADAPTER

DVD
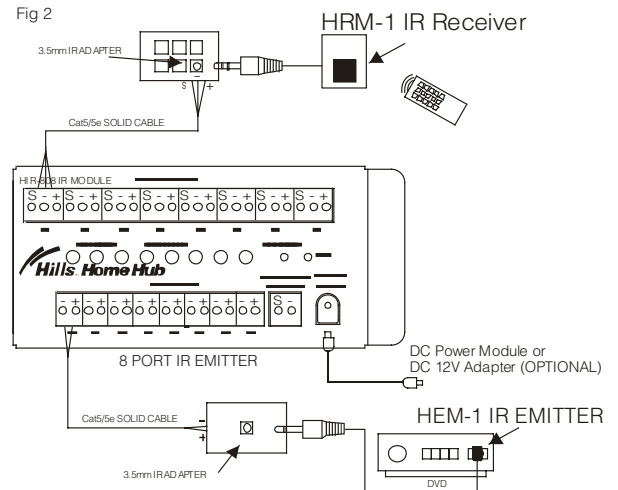
Wired IR Target

Features

↘ Receives Infrared signals from the device remote control and sends them to the HIR-808 IR Distribution Module

Specifications

Power: 12V DC from HIR-808 Module
Length of wire: 1.5m

Ordering info

S3418   Wired IR Target

Remote Room IR Target - RF

Features

↘ Receives Infrared signal from the device remote control and sends them to the S3437 Hills Active Distribution Splitter. The signal is repeated by the HI2014 four channel modulator which is placed in the location of the device that is to be remotely controlled.

Specifications

Power: 5V DC from S3437 Hills Active Distribution Splitter
Length of wire: Supplied separately

Ordering info

HI3041   Remote Room IR Target - RF

6. Power Supplies

The Hills range of modular power supplies delivers distributed power to all active Hills Home Hub modules, as well as security and music distribution systems.

Delivering a space saving advantage compared to traditional plug packs and transformers makes the modular power supply the logical choice for all your power distribution needs.

Video Distribution

Infrared Modules

Modulator

NX Security

18V AC (HPS 25W)

Ethernet Switch

240V AC IEC
Plug Type Connection

12VDC (HPS-60W)

Music Distribution Modules
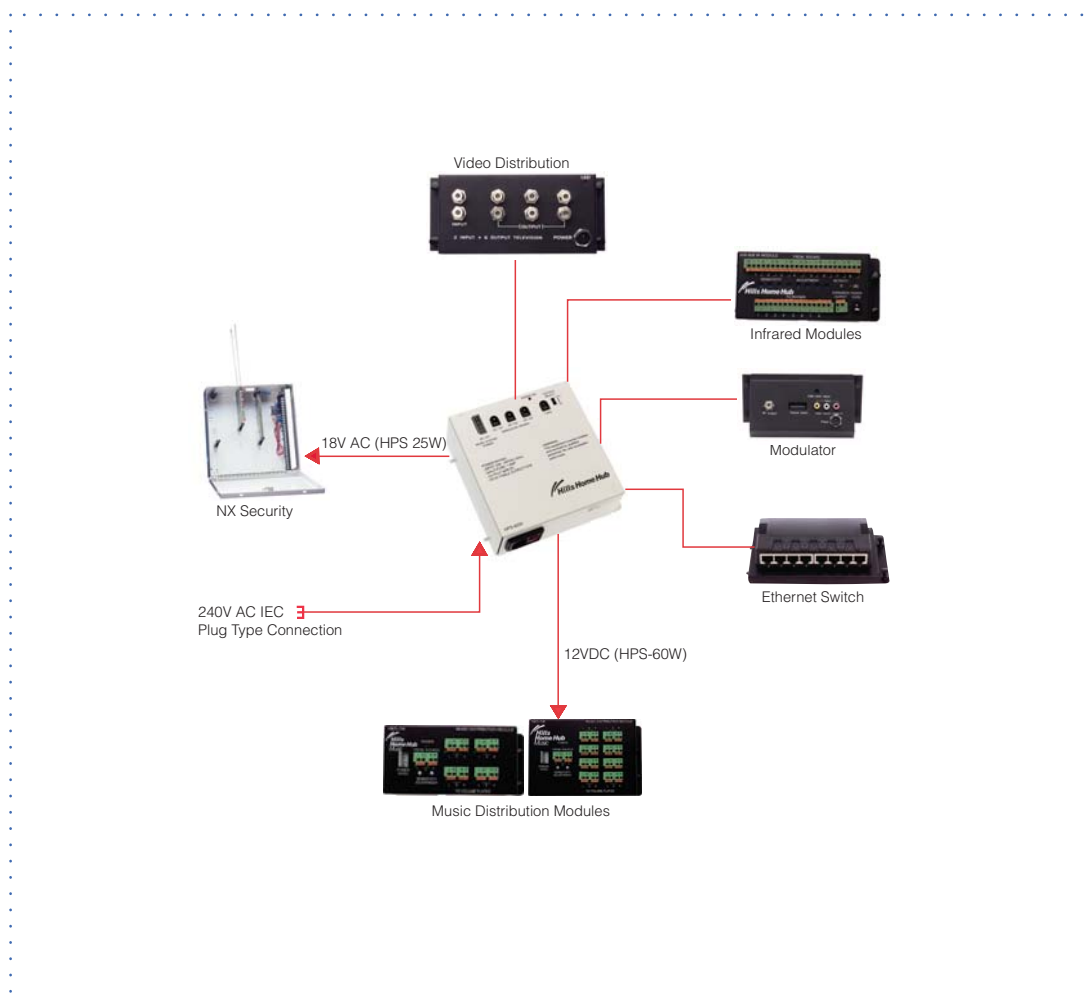
Power Supply Modules

Features

↘ Provide full-regulated, high quality and low EMC DC power for any active modules inside the Hills Home Hub enclosure

↘ Normally placed at the bottom of the enclosure

Specifications

HPS-60W contains:

3 x (2.5mm) power ports @ 12V DC
1 x (2.1mm) power port @ 5V or 7.5V switch able via slide switch
1 x (4-pin 5.08mm socket) power port @ 12V DC used to power the HUS-104 & HUS-108 Music Distribution modules

Total Power Output:

60Watts or 5 Amps @ 12V DC Resettable output fuse. (NB. Remove all output load for 5 mins to allow fuse to reset)

HPS-25W contains:

3 x (2.5mm) power ports @ 12V DC
1 x (2.1mm) power port @ 5V or 7.5V switch able via slide switch
1 x (4-pin 5.08mm socket) power port @ 18V AC used to power the Hills Home Security System controller.

Total DC Power Output:

25Watts or 2 Amps @ 12V DC

Total AC Power Output:

18V AC @ 1.5 Amps
Separate resettable output fuses for DC and
AC outputs.

(NB. Remove all output load for 5 mins to allow fuse to reset)

HPS-60W Power Supply

HPS-25W Power Supply

Ordering Information

S2121   HPS-60W Power Supply 60 Watts 12V DC
S2267   HPS-25W18VAC Power Supply 25 Watts 18V AC

Installing the HPS-60W and the HPS-25W Power Supply Modules

To install the module, simply insert the tabs to the cap located on the rail of the enclosure. Press the fastener to lock the module to the desired position.
(see Fig.1)

Wire installation:

Mains power connection is via the supplied 3 pin IEC cord. Plug the cord into the IEC plug at the bottom of the power module, and the 3 pin mains plug into a GPO. The power module has an isolation switch adjacent to the IEC plug, switch it off if you are required to remove mains power from the power module. Follow the diagram in fig.2 for all output connections.
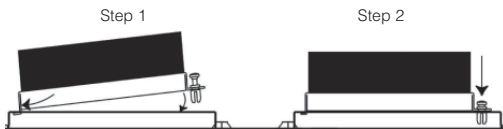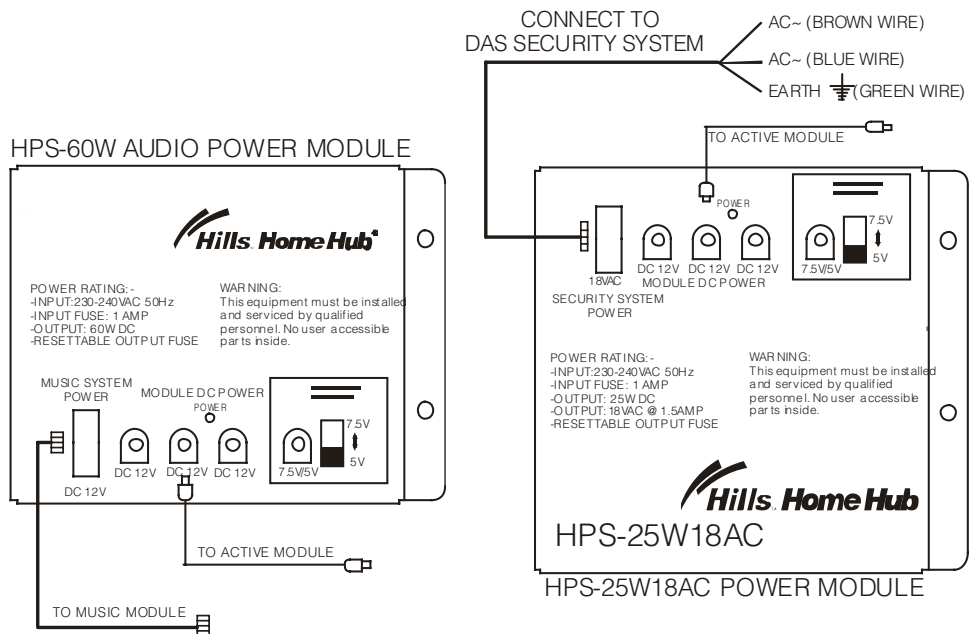
Fig 1

Step 1   Step 2

Fig 2

CONNECT TO
DAS SECURITY SYSTEM

AC~ (BROWN WIRE)
AC~ (BLUE WIRE)
EARTH (GREEN WIRE)

TO ACTIVE MODULE

HPS-60W AUDIO POWER MODULE

Hills Home Hub

POWER RATING: -
-INPUT:230-240VAC 50Hz
-INPUT FUSE: 1 AMP
-OUTPUT: 60W DC
-RESETTABLE OUTPUT FUSE

WARNING:
This equipment must be installed and serviced by qualified personnel. No user accessible parts inside.

MUSIC SYSTEM POWER   MODULE DC POWER
POWER

DC 12V   DC 12V DC 12V DC 12V   7.5V/5V
7.5V
5V

TO ACTIVE MODULE

TO MUSIC MODULE

POWER

18VAC   DC 12V DC 12V DC 12V   7.5V/5V
MODULE DC POWER   7.5V
5V

SECURITY SYSTEM POWER

POWER RATING: -
-INPUT:230-240VAC 50Hz
-INPUT FUSE: 1 AMP
-OUTPUT: 25W DC
-OUTPUT: 18VAC @ 1.5AMP
-RESETTABLE OUTPUT FUSE

WARNING:
This equipment must be installed and serviced by qualified personnel. No user accessible parts inside.
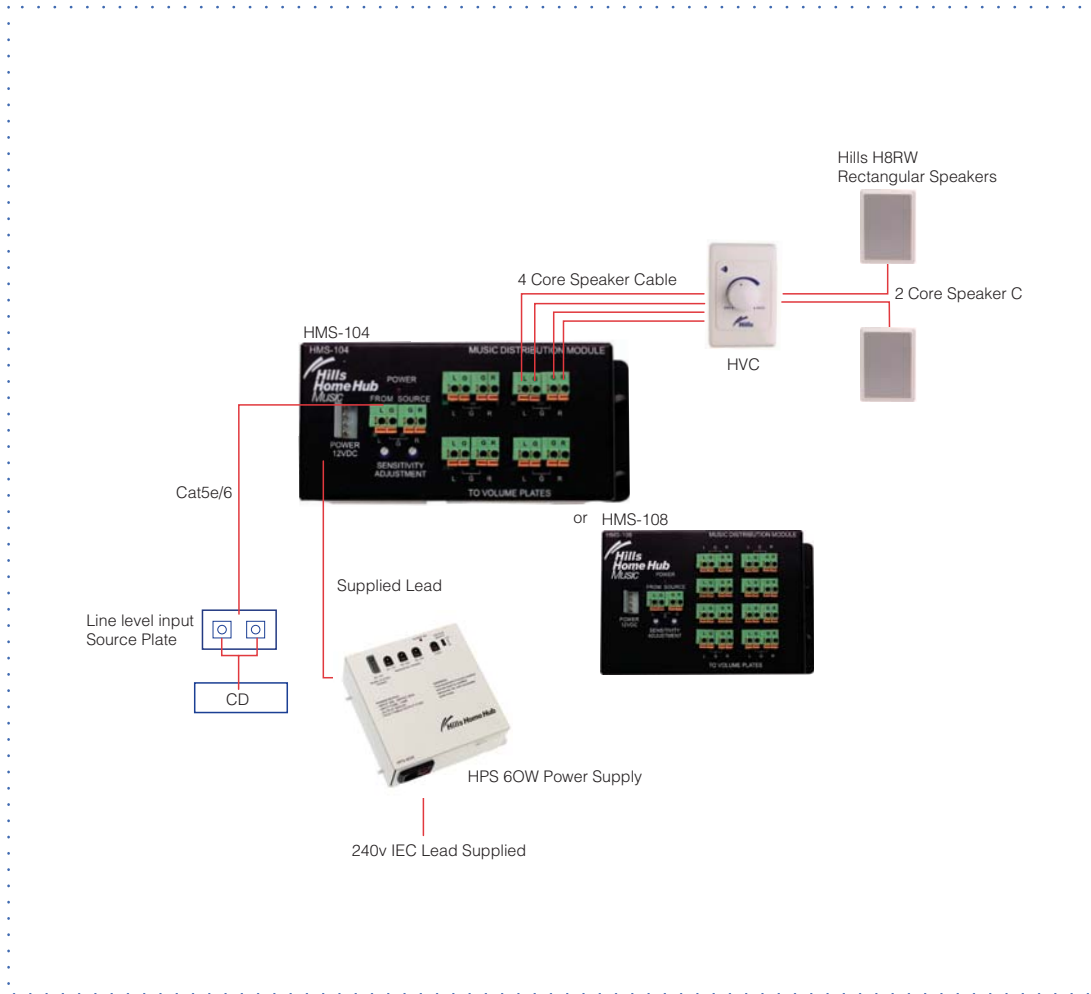
Hills Home Hub

HPS-25W18AC

HPS-25W18AC POWER MODULE

7. Music Modules

The Hills Music Distribution system delivers whole home audio from a single source to 4 or 8 room locations. As the amplification is done at the volume control, it permits true volume control at each location.

Hills H8RW
Rectangular Speakers

4 Core Speaker Cable

2 Core Speaker C

HMS-104

HVC

Cat5e/6

or HMS-108

Supplied Lead

Line level input
Source Plate

CD

HPS 6OW Power Supply

240v IEC Lead Supplied

Single Audio Sources Distribution Modules

Features

↘ Provides a single audio source to up to 8 locations

↘ Utilising the HVC-40W volume control plate, each location has independent volume control

HMS-104 Single Source

Specifications

Dimensions: 104mmH x 165mmW x 54mmD
Max. Wattage: 4 Zone: 20 Watts
                       8 Zone: 40 Watts
Speaker Impedance: 8ohm
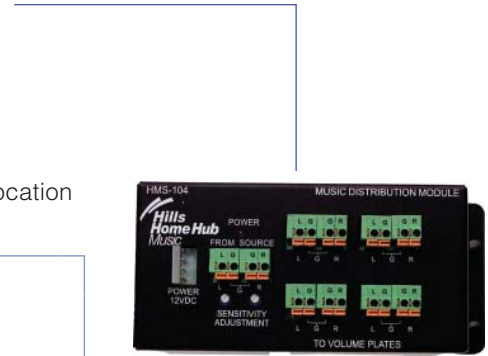Audio Source: Single
Max. Locations: 4 / 8
Power Input: 12V DC
Connector Type: Press fit terminal block

Ordering Info

S2122   HMS-104 Single Source x 4 Zone Amplifier
S2123   HMS-108 Single Source x 8 Zone Amplifier

HMS-108 Single Source

Installing the Audio Sources Distribution Module

To install the module, simply insert the tabs to the cap located on the rail of the enclosure. Press the fastener to lock the module at the desired position. (see Fig. 1)

Operation / Wire

Using Cat5/5e cable, connect the music source (such as a receiver or CD player audio out via a wall inlet) to the Music Distribution Module terminals L-G-R labeled "FROM SOURCE". Where "R" = Right channel, "L" = Left channel, and "G" = Ground.
Note: Use 1 twisted pair of a Cat5/5e cable for the Left and Right channels. (see Fig. 2)

Using 14 gauge speaker cable, connect the "IN-R / COM" and "IN-L / COM" from the volume control to the music module terminals L-G-R labeled "TO VOLUME PLATES" . Simply strip off wires and insert into the appropriate terminal blocks.
Note- The speaker cable connected to the music module must be connected to the left hand side of the volume control.

Using 14 gauge speaker cable, connect the "OUT-R / COM" and "OUT-L / COM" from the volume control to the room "8 ohm speakers". Simply strip off wires and insert into the appropriate terminal blocks.
Note: The speaker cable connected to the "8 ohm speaker" must be connected to the right hand side of the volume control. Connect the power cable to the DC power module (not included).

The DC power module contains a 12VDC, 4-pin 5.08mm socket for over 3A current devices and is designed specifically for this music distribution system. Please refer to the figure for wiring.
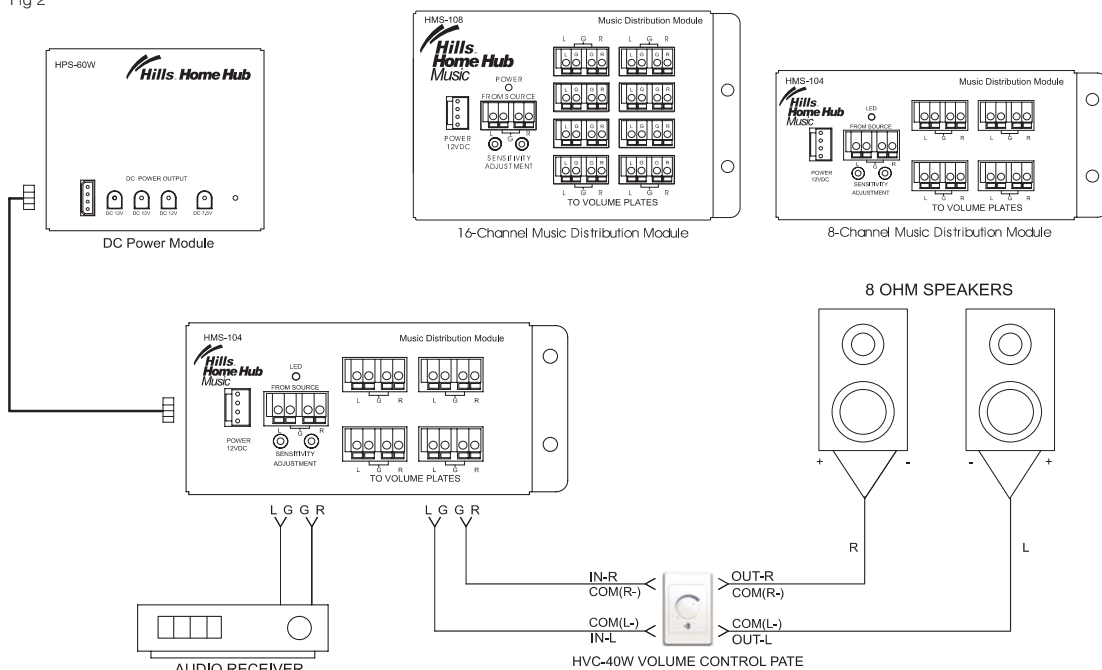
Gain/Sensitivity Adjustment

There is a gain/sensitivity adjustment used for tuning the power amplified level. Different audio has different output level, if your audio is a low level output, then you can use gain/sensitivity adjust to increase the gain and get appropriate volume.

Fig 1

Step 1   Step 2

Fig 2

HPS-60W   Hills Home Hub

DC POWER OUTPUT
DC 12V   DC 12V   DC 12V   DC 72V

DC Power Module

HMS-108   Music Distribution Module
Hills Home Hub Music
POWER
FROM SOURCE
POWER 12VDC
SENSITIVITY ADJUSTMENT
TO VOLUME PLATES

16-Channel Music Distribution Module

HMS-104   Music Distribution Module
Hills Home Hub Music
LED
FROM SOURCE
POWER 12VDC
SENSITIVITY ADJUSTMENT
TO VOLUME PLATES

8-Channel Music Distribution Module

8 OHM SPEAKERS

HMS-104   Music Distribution Module
Hills Home Hub Music
LED
FROM SOURCE
POWER 12VDC
SENSITIVITY ADJUSTMENT
TO VOLUME PLATES

L G G R   L G G R

AUDIO RECEIVER

IN-R
COM(R-)
COM(L-)
IN-L

OUT-R
COM(R-)
COM(L-)
OUT-L

HVC-40W VOLUME CONTROL PATE

R   L

+ -   - +

8. Accessories

Part Number	Description

Mechanisms

S2685	Blank Mechanism C Type (10 pack)
S2684	Blank Mechanism H Type (10 pack)
S2686	RJ Cat6 Keystone Mechanism C Type
S2687	RJ Cat6 Keystone Mechanism H Type
S2689	3.5mm to IDC Mechanism C Type
S2688	3.5mm to IDC Mechanism H Type
S2695*	F to F Mechanism C Type
S2696*	F to F Mechanism H Type
S2697	PAL to F Mechanism C Type
S2698	PAL to F Mechanism H Type
S2694	RCA to F Mechanism C Type
S2693	RCA to F Mechanism H Type
S2709	Speaker Post Mechanisms pair (red + black) C Type
S2710	Speaker Post Mechanisms pair (red + black) H Type
S2767	RCA Audio IDC 2 piece Pack C Type
S2766	RCA Audio IDC 2 piece Pack H Type
S2769	RCA Composite IDC/F 3 piece Pack C Type
S2768	RCA Composite IDC/F 3 piece Pack H Type
S2773	RCA Composite F 3 piece Pack C Type
S2770	RCA Composite F 3 piece Pack H Type

* Foxtel / Austar Pay TV Approved for Australia

Part Number	Description

Mechanisms cont

S2775	RCA Component F 3 piece Pack C Type
S2774	RCA Component F 3 piece Pack H Type

S2355*	Diplexer PAL/F C Type
S2354*	Diplexer PAL/F H Type

S2711	Banana Plug Pair Red/Blk

* Foxtel / Austar Pay TV Approved for Australia

Part Number	Description

Grid Plates & Surrounds

Clipsal

	S3196	Clipsal 2031VHWE Single Gang Wall plate
	S3197	Clipsal 2032VHWE 2 Gang Wall Plate
	S3198	Clipsal 2033VHWE 3 Gang Wall plate
	S3199	Clipsal 2034VHWE 4 Gang Wall Plate
	S3200	Clipsal 2035VHWE 5 Gang Wall Plate
	S3201	Clipsal 2036VHWE 6 Gang Wall Plate
	S3192	Clipsal 2000/2 Gang Flush Surround Wall Plate

Part Number	Description

Grid Plates and Surrounds cont

	Part Number	Description
	S3195	Clipsal 2031VXWE Blank Wall plate
	S3202	Clipsal 449AWE Standard Mounting Block Single Gang
	S3203	Clipsal 449ASDWE Mounting Flange Standard Size - Deep Mount
	S3204	Clipsal 154 Mounting Wall Board Clip - Single Gang
	S3205	Clipsal 155A Metal Mounting Bracket - Horizontal with Sliding Nuts
	S3440	Clipsal 5.1 Sub Woofer Plate with printing
	S3430	Clipsal 5.1 Surround Plate with printing 2 Gang Vertical

Part Number	Description

Grid Plates & Surrounds cont

	S3428	Clipsal 5.1 Front Printed 6 Grand Plate + Grid
	S3429	Clipsal 5.1 Rear Printed 6 Grand Plate + Grid

HPM

	S3212	HPM XL770/1 Single Gang Wall Plate White
	S3184	HPM XL770/2 2 Gang Wall Plate White
	S3185	HPM XL770/3 3 Gang Wall Plate White
	S3186	HPM XL770/4 4 Gang Wall Plate White
	S3187	HPM XL770/5 5 Gang Wall Plate White

Part Number	Description

Grid Plates and Surrounds cont

S3188   HPM XL770/6 6 Gang Wall Plate White

S3191   HPM 770/OWE Blank Wall Plate White
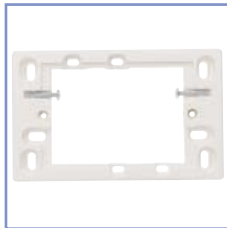
S3189   HPM 137DWE 18mm Shallow Mounting Block

S3190   HPM 140WE 37mm Single Gang Surface Mounting Block

S3441   HPM 5.1 Subwoofer plate with printing

S3431   HPM 5.1 Front Printed Flush Surround + 6 Gange Grid Wall Plate

S3432   HPM 5.1 Rear Printed Flush Surround + 6 Gang Grid Wall plate

Part Number	Description

Combination Wall Plates - Home

S3294

Kit Phone/Data Single Gang Wall Plate - Clipsal Type
↘ 1 x S3196 Clipsal 1 Gang Plate & Grid 2000 Series RJ
↘ 1 x S2686 RJ Cat6 Mechanism - C Type

S3298

Kit Phone/Data Single Gang Wall Plate - HPM Type
↘ 1 x S3212 HP, Flush Surround & 1 Gang Grid Wall Pate
↘ 1 x S2687 RJ Cat6 Mechanism - H Type

S3307

Kit Phone/Data 2 Gang Wall Plate - Clipsal Type
↘ 1 x S3197 Clipsal 2 Gang Plate & Grid 2000 Series
↘ 2 x S2686 RJ Cat 6 Mechanism - C Type

S3314

Kit Phone/Data 2 Gang Wall Plate - HPM Type
↘ 1 x S3184 HPM Flush Surround & 2 Gang Grid Wall Plate
↘ 2 x S2687 RJ Cat6 Mechanism - H Type

S3450*

Kit Pay TV/TV + Phone + IR 6 Gang Wall Plate - Clipsal Type
↘ 1 x S3201 Clipsal 6 Gang Plate & Grid 2000 Series
↘ 2 x S2686 RJ Cat6 Mechanism - C Type
↘ 1 x S2689 3.5mm to IDC Mechanism - C Type
↘ 1 x S2695 F to F Mechanism - C Type
↘ 1 x S2355 Diplexer PAL/F Type - C Type

S3451*

Kit Pay TV/TV + Phone + Data + IR 6 Gang Wall Plate - HPM Type
↘ 1 x S3188 HPM Flush Surround & 6 Gang Grid Wall Plate
↘ 2 x S2687 RJ Cat6 Mechanism - H Type
↘ 1 x S2688 3.5mm to IDC Mechanism - H Type
↘ 1 x S2696 F To F Mechanism - H Type
↘ 1 x S2354 Diplexer PAL/F Type - H Type

S3452

Kit TV+ Phone + Data + IR 5 Gang Wall Plate - Clipsal Type
↘ 1 x S3200 Clipsal 5 Gang Plate & Grid 2000 Series
↘ 2 x S2686 RJ Cat6 Mechanism - C Type
↘ 1 x S2689 3.5mm to IDC Mechanism - C Type
↘ 1 x S2355 Diplexer PAL/F Type - C Type

S3453

Kit TV+ Phone + Data + IR 5 Gang Wall Plate - HPM Type
↘ 1 x S3187 HPM Flush Surround & 5 Gang Grid Wall Plate
↘ 2 x S2687 RJ Cat6 Mechanism - H Type
↘ 1 x S2688 3.5mm to IDC Mechanism - H Type
↘ 1 x S2354 Diplexer PAL/F Type - H Type

S3454

Kit PAL TV 1 Gang Wall Plate - Clipsal Type
↘ 1 x S3196 Clipsal 1 Gang Plate & Grid 2000 Series
↘ 1 x S2697 PAL To F Mechanism - C Type

S3455

Kit PAL TV 1 Gang Wall Plate - HPM Type
↘ 1 x S3212 HPM Flush Surround & 1 Gang Grid Wall Plate
↘ 1 x S2698 PAL To F Mechanism - H Type

S3456*

Kit Pay + TV Diplexer 2 Gang Wall Plate - Clipsal Type
↘ 1 x S3197 Clipsal 2 Gang Plate & Grid 2000 Series
↘ 1 x S2355 Diplexer PAL/F Type - C Type

S3457*

Kit Pay + TV Diplexer 2 Gang Wall Plate - HPM Type
↘ 1 x S3184 HPM Flush Surround & 2 Gang Grid Wall Plate
↘ 1 x S2354 Diplexer PAL/F Type - H Type

* All PayTV kits are approved for Foxtel / Austar connection

| Part Number | Description |

Combination Wall Plates - Home cont

S3458

Kit TV + Phone + IR 3 Gang Wall Plate - Clipsal Type
- ↘ 1 x S3198 Clipsal 3 Gang Plate & Grid 2000 Series
- ↘ 1 x S2686 RJ Cat6 Mechanism - C Type
- ↘ 1 x S2689 3.5mm to IDC Mechanism - C Type
- ↘ 1 x S2697 PAL To F Mechanism - C Type

S3459

Kit TV + Phone + IR 3 Gang Wall Plate - HPM Type
- ↘ 1 x S3185 HPM Flush Surround & 3 Gang Grid Wall Plate
- ↘ 1 x S2687 RJ Cat6 Mechanism - H Type
- ↘ 1 x S2688 3.5mm to IDC Mechanism - H Type
- ↘ 1 x S2698 PAL To F Mechanism - H Type

S3460*

Kit Pay + TV + Modulator + IR + Data 8 Gang Wall Plate - Clipsal Type
- ↘ 1 x S3192 Clipsal Surround 2 Gang Vertical 2000 Series
- ↘ 2 x S3199 Clipsal 4 Gang Plate & Grid 2000 Series
- ↘ 2 x S2686 RJ Cat6 Mechanism - C Type
- ↘ 2 x S2689 3.5mm to IDC Mechanism - C Type
- ↘ 2 x S2695 F To F Mechanism - C Type
- ↘ 1 x S2355 Diplexer PAL/F Type - C Type

S3461*

Kit Pay + TV + Modulator + IR + Data 8 Gang Wall Plate - HPM Type
- ↘ 2 x S3186 HPM Flush Surround & 4 Gang Grid Wall Plate
- ↘ 2 x S2687 RJ Cat6 Mechanism - H Type
- ↘ 2 x S2688 3.5mm to IDC Mechanism - H Type
- ↘ 2 x S2696 F TO F MECH H Type
- ↘ 1 x S2354 Diplexer PAL/F Type - H Type

* All PayTV kits are approved for Foxtel / Austar connection

Combination Wall Plates - Home Theatre

S3462

Kit Home Theatre Component & Composite - Clipsal Type
- ↘ 1 x S3201 Clipsal 6 Gang Plate & Grid 2000 Series
- ↘ 1 x S2773 RCA Composite F 3pcs Pack - C Type
- ↘ 1 x S2775 RCA Component F 3pcs Pack - C Type

S3463

Kit Home Theatre Component & Composite - HPM Type
- ↘ 1 x S3188 HPM Flush Surround & 6 Gang Grid Wall Plate
- ↘ 1 x S2770 RCA Composite F 3pcs Pack - H Type
- ↘ 1 x S2774 RCA Component F 3pcs Pack - H Type

S3464

Kit Home Theatre Composite + IR / Auxiliary - Clipsal Type
- ↘ 1 x S3201 Clipsal 6 Gang Plate & Grid 2000 Series
- ↘ 3 x S2689 3.5mm to IDC Mechanism - C Type
- ↘ 1 x S2773 RCA Composite F 3pcs Pack - C Type

S3465

Kit Home Theatre Composite + IR / Auxiliary - HPM Type
- ↘ 1 x S3188 HPM Flush Surround & 6 Gang Grid Wall Plate
- ↘ 3 x S2688 3.5mm to IDC Mechanism - H Type
- ↘ 1 x S2770 RCA Composite F 3pcs Pack - H Type

Part Number	Description

Combination Wall Plates - Music

S2125 — HVC-40W Wall Plate Volume Control

S3362 — **Kit Single Gang Subwoofer Wall Plate - Clipsal Type**
- ↘ 1 x S3440 Clipsal 5.1 Sub Woofer Plate with Printing
- ↘ 1 x S2694 RCA To F Mechanism - C Type

S3363 — **Kit Single Gang Subwoofer Wall Plate - HPM Type**
- ↘ 1 x S3441HPM 5.1 Sub Woofer Plate with Printing
- ↘ 1 x S2693 RCA To F Mechanism - H Type

S3467 — **Kit 5.1 Speaker Wall Plate - Clipsal Type**
- ↘ 1 x S3430 Clipsal 5.1 Surround Printed 2 GangVertical 2000 Series Wall Plate
- ↘ 1 x S3428 Clipsal 5.1 Front Printed 6 Gang Plate & Grid 2000 Series Wall Plate
- ↘ 1 x S3429 Clipsal 5.1 Rear Printed 6 Gang Plate &Grid 2000 Series Wall Plate
- ↘ 2 x S2694 RCA To F Mechanism - C Type
- ↘ 5 x S2709 Speaker Post Mechanisms Pair - C TypeRed& Black

S3466 — **Kit 5.1 Speaker Wall Plate - HPM Type**
- ↘ 1 x S3431HPM 5.1 Front Printed Flush Surround & 6 Gang Grid Wall Plate
- ↘ 1 x S3432 HPM 5.1 Rear Printed Flush Surround & 6 Gang Grid Wall Plate
- ↘ 2 x S2693 RCA To F Mechanism - H Type
- ↘ 5 x S2710 Speaker Post Mechanisms Pair - H Type Red & Black

S3468 — **Kit Single Source 3.5mm to IDC - Clipsal Type**
- ↘ 1 x S3196 Clipsal 1 Gang Plate & Grid 2000 Series
- ↘ 1 x S2689 3.5mm to IDC Mechanism - C Type

S3469 — **Kit Single Source 3.5mm to IDC - HPM Type**
- ↘ 1 x S3212 HPM Flush Surround & 1 Gang Grid Wall Plate
- ↘ 1 x S2688 3.5mm to IDC Mechanism - H Type

S3472 — **Kit 4 Way Source 3.5mm to IDC - Clipsal Type**
- ↘ 1 x S3199 Clipsal 4 Gang Plate & Grid 2000 Series
- ↘ 4 x S2689 3.5mm to IDC Mechanism - C Type

S3473 — **Kit 4 Way Source 3.5mm to IDC - HPM Type**
- ↘ 1 x S3186 HPM Flush Surround & 4 Gang Grid Wall Plate
- ↘ 4 x S2688 3.5mm to IDC Mechanism - H Type

Part Number	Description

Combination Wall Plates - Music cont

S3474

Kit 4 Way Source RCA to IDC - Clipsal Type
↘ 1 x S3192 Clipsal Surround 2 Gang Vertical 2000 Series
↘ 2 x S3199 Clipsal 4 Gang Plate & Grid 2000 Series
↘ 4 x S2691 RCA to IDC Mechanism - C Type

S3475

Kit 4 Way Source RCA to IDC - HPM Type
↘ 2 x S3186 HPM Flush Surround & 4 Gang Grid Wall Plate
↘ 4 x S2692 RCA to IDC Mechanism - H Type

S3476

Kit 5.1 Satellite Speaker Wall Plates - Clipsal Type
↘ 1 x S3430 Clipsal 5.1 Surround Printed 2 Gang Vertical 2000 Series Wall Plate
↘ 1 x S3428 Clipsal 5.1 Front Printed 6 Gang Plate & Grid 2000 Series Wall Plate
↘ 1 x S3429 Clipsal 5.1 Rear Printed 6 Gang Plate & Grid 2000 Series Wall Plate
↘ 3 x S2694 RCA To F Mechanism - C Type
↘ 1 x s3196 Clipsal 2031VHWE Single Gang Wall plate
↘ 10 x S2709 Speaker Post Mechanisms Pair - C Type Red & Black
↘ 1 x S3440 Clipsal 5.1 Sub Woofer Plate with Printing
↘ 5 x S3197 Clipsal 2 Gang Plate & Grid 2000 Series
↘ 10 x S2711 Banana Plug Pair - Red & Black

S3477

Kit 5.1 Satellite Speaker Wall Plates - HPM Type
↘ 1 x S3431 HPM 5.1 Front Printed Flush Surround & 6 Gang Grid Wall Plate
↘ 1 x S3432 HPM 5.1 Rear Printed Flush Surround & 6 Gang Grid Wall Plate
↘ 3 x S2693 RCA To F Mechanism - H Type
↘ 10 x S2710 Speaker Post Mechanisms Pair - H Type Red & Black
↘ 1 x S3441 HPM 5.1 Sub Woofer Plate with Printing
↘ 5 x S3184 HPM Flush Surround & 2 Gang Grid Wall Plate
↘ 10 x S2711 Banana Plug Pair - Red & Black

	Part Number	Description

Cable

	HI3003	Cable Cat5 E Ec5-305-BL Blue 305 Metres
	HI3004	Cable Cat5E Ec5-305-GY Grey 305 Metres
	HI3005	Cable Cat5E Ec5-305-YL Yellow 305 Metres
	HI3006	Cable Cat5E Ec5-305-GN Green 305 Metres
	HI3007	Cable Cat5E Ec5-305-RD Red 305 Metres
	HI46040 HI46040B*	Cable RG6 Universal QD Bond Cable RG6 Quad Bond 305 Metres 1189ab
	S3312 S5704 S3302 S3313	Figure 8 14/020 100m Heavy Duty Figure 8 14/020 500m Heavy Duty (boxed) Figure 8 24/020 100m Extra Heavy Duty Figure 8 24/020 500m EXtra Heavy Duty (boxed)

* Foxtel / Austar Pay TV Approved for Australia

Products and Specifications subject to change without notice. Copyright Hills Industries Ltd 2005.

Part Number	Description

Cable cont

HI3048	Four Core Speaker Cable 150 Metres (yellow)

S2383	Two Core Speaker Cable 41/254 150m - 2 Colour

S3299	Four Core Cable 7/020 100m Normal Duty Security Cable
S1933	Four Core Cable 7/020 300m Normal Duty (boxed) Security Cable
S3329	Four Core 14/020 Security 300m Jelly Fill Security Cable
S3306	Four Core Cable 14/020 100m Heavy Duty Security Cable
S3327	Four Core Cable 14/020 300m Heavy Duty Security Cable
S3322	Four Core Cable 14/020 500m Heavy Duty (boxed) Security Cable
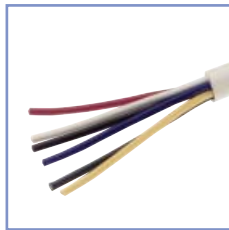
S3315	6 Core Cable 7/020 100m Normal Duty Security Cable
S3301	6 Core Cable 7/020 300m Normal Duty Security Cable
S3309	6 Core Cable 14/020 100m Heavy Duty Security Cable
S3330	6 Core Cable 14/020 200m Heavy Duty Security Cable
S1936	6 Core 14/020 Security 300m Jelly Fill Security Cable

S3320	RG-59 Coaxial Copper 100m 75ohm for security camera.

S2640	RG-59/U Type Precision Video Coax (Yellow)
S2641	RG-59/U Type Precision Video Coax (Blue)
S2642	RG-59/U Type Precision Video Coax (White)
S2643	RG-59/U Type Precision Video Coax (Black)
S2644	RG-59/U Type Precision Video Coax (Green)
S2639	RG-59/U Type Precision Video Coax (Red)

Leads

RCA
RCA Connectors are the most flexible and common form of hooking up two components in a home entertainment system.

Digital Audio/Composite/ Subwoofer/ Centre

Single RCA
Used for Digital Audio, Composite Video, Subwoofer and Centre Channel signals, Digital Audio allows multiple channels to be transmitted through a single cable. Most critical listeners prefer a single RCA Digital coaxial cable to a Fibre Optic cable because of its ability to sound more natural. Composite Video, Subwoofer and Centre channel are conventional analogue signals and are transmitted through their own dedicated cable.

Audio
LEFT   RIGHT

2 RCA
Used almost always for the transmission of Stereo Audio signals Colour coded Red for the Right Audio channel and White for the Left Audio channel. It is the most common type of cable and is supplied free with equipment by Hi Fi manufactures. It is important to bear in mind that free interconnects do not allow the equipment they are supplied with to reach it's erformance potential.

Audio and Video
LEFT   RIGHT   VIDEO

3 RCA
Used primarily in Home Theatre applications for the transmission of the Left Audio channel, Right Audio channel and Video picture signal. It is also used increasingly for the transmission of Component or RGB Video, so called because the Video picture signal is separately transmitted in its three component colours of red, green and blue. This format is included in many new equipment formats such as DVD, Satellite and Plasma Projection Colour TVs. The format delivers increased colour resolution with more detail and realism than is possible with conventional S-Video or Composite Video connections. It will also likely become the standard with Hight Definition Television "HDTV".

Component Video
RED   GREEEN   BLUE

6 RCA
A highly versatile configuration originally pioneered by SMT. It is most commonly used for Dolby Digital solutions, consisting of 6 seperate channels of audio-Left Front, Centre, Right Front, Right Rear, Left Rear, and Subwoofer. The extensive versatility of this configuration means that is has a wide variety of Home Theatre applications for both audio and video.

Audio
F/LEFT   F/RIGHT   CENTRE
R/LEFT   R/RIGHT   SUBWOOFER

Part Number	Description

Leads cont

	Part Number	Description
	S3166	Composite Patch Lead 2m
	S3168	C2054H - 3 RCA Plugs to 3 RCA Plugs, Gold Plated,Molding Type
	S3170	C1816 - 3.5 mm Stereo Plug
	S3169	C3001 - PAL Plug to PAL Plug
	S3171	C2044B Pal and F Lead 2m
	S3165	RGB Component Patch Lead 2m
	S3167	3.5mm Stereo to RCA Patch 2m

Part Number	Description

Leads cont

S2409 — Patch Cable 500mm UTP C5E Blue

H13011 — Patch Cable 150mm UTP C5E Yellow

H13012 — Patch Cable 500mm UTP C5E Yellow

S3495 — Scart to 3 RCA

S3413 — 2.1mm DC Connection Lead 1.2mm DC Connection Lead 1.2m for HPS25/60w Power Supply

S3412 — 2.5mm DC Connection Lead 1.2mm DC Connection Lead 1.2m for HPS25/60w Power Supply

S3436 — 2.1mm to 2.5mm DC Connection Lead for HPS25/60w Power Supply

S3414 — HPS2SW 5.08mm Plug + 800mm Connection lead for 18VAC

S3415 — HPS60W 5.08mm + 3.96mm + 1200mm Connection Lead for 12VDC

Part Number	Description

Connectors

S3318   BNC RG6Q Silver Connector Commercial
S3308   BNC RG6 Gold Connector Professional

S3284*   F Type RG6Q Silver Connector Universal
S3310*   F Type RG6Q Gold Connector Professional

S3305   PAL Female RG59 Connector Gold Professional
S3304   PAL Male RG59 Connector Gold Professional

S3296   BNC RG59 Connector Silver Commercial
S3295   BNC RG59 Connector Gold Professional

S3286   RCA RG59 Connector Gold Universal Professional
S3283   RCA RG59 Connector Silver Universal Professional

S3285   F Type RG59 Connector Gold Universal Professional
S3421   F Type RG59 Connector Silver Universal Red Ring

S3293   Rubber Identification Ring for Universal RCA Blue

* Foxtel / Austar Pay TV Approved for Australia

Part Number	Description

Connectors cont

	S2391	Rubber Identification Ring for Universal RCA Black
	S2391	Rubber Identification Ring for Universal RCA Orange
	S2389	Rubber Identification Ring for Universal RCA Red
	S3288	Rubber Identification Ring for Universal RCA Yellow
	S3287	Rubber Identification Ring for Universal RCA Green
	S3290	Rubber Identification Ring for Universal RCA White

Part Number	Description

Tools

S3420 — Compression Tool Kit -
Includes: Universal compression tool for RCA, RG6, RG59, BNC, IEC Connectors, Coax strippers, Cable cutter.

H13052 — 110 Punch down tool

| Part Number | Description |

Remote Controls

S3439

SRC 7000 Programable Universal Touch Screen Remote Control.
- Controls up to 64 devices
- Smart learning guide
- Preprogrammed database
- Macro function
- Blue backlight on LCD

H14028   UR24E103 8 in 1 Remote + RF

Music Accessories - Speakers

S2330

H65RW 6" In Wall/Ceiling Speaker - Pair

Dimensions	30.5cm H x 21.9cm H
Cutout Dimensions	27.3cm H x 18.57cm W
Mounting Depth	6.2cm
Shipping Weight	4.32kg (pair)
Frequency Responses	50Hz~20 kHz
Impedence	Compatible w/8ohm Output
Efficiency (dB 1w/1m)	89dB
Recommended Amp	20-100 watts/channel
Driver Complement	
Mid-Bass	16.5cm Kevlar Cone
Tweeter	1.9cm Dome in Swivel Mount
Colour/Finish	Matte/White (Paintable)
Aimable Tweeter	Yes

S2751

H65RW 6" In Wall/Ceiling Speaker - Single

Dimensions	30.5cm H x 21.9cm H
Cutout Dimensions	27.3cm H x 18.57cm W
Mounting Depth	6.2cm
Shipping Weight	2.15kg (each)
Frequency Responses	32Hz-20kHz
Impedence	Compatible w/8ohm Output
Efficiency (dB 1w/1m)	89dB
Recommended Amp	20-100 watts/channel
Driver Complement	
Mid-Bass	16.5cm Kevlar Cone
Tweeter	1.9cm Dome in Swivel Mount
Colour/Finish	Matte/White (Paintable)
Aimable Tweeter	Yes

S2331

H8RW 8" In Wall/Ceiling Speaker

Dimensions	35.6cm H x 25.4cm H
Cutout Dimensions	32.38cm H x 22.07cm W
Mounting Depth	6.2cm
Shipping Weight	2.7kg (pair)
Frequency Responses	55Hz ~ 20kHz ± 4kHz
Impedence	Compatible w/8ohm Amp
Efficiency (dB 1w/1m)	90dB
Nominal power	60 watts
Max power	120 watts
Driver Complement	
Mid-Bass	20.3cm Kevlar Cone
Tweeter	2.5cm Dome in Swivel Mount
Colour/Finish	Matte/White (Paintable)
Aimable Tweeter	Yes

S2747

H6RC 5" Rectangle Centre Speaker

Dimensions	44.9cm H x 22.1cm H x 7.7cm
Cutout Dimensions	41.4cm L x 18.6cm W x 66cm D
Mounting Depth	8.25cm
Shipping Weight	2.55kg
Frequency Responses	60Hz ~ 20kHz ± 4 KHz
Efficiency (dB 1w/1m)	87dB ± 2 Db
Nominal Power	80 watts
Max Power	160 watts
Driver Complement	
Bass	16.51cm Dynamic Balance
Mid Bass	16.51cm Dynamic Balance Kevlar Cone
Tweeter	2.5cm Dynamic Balance Ring Radiator
Colour/Finish	Matte/White (Paintable)
Aimable Tweeter	Yes

Part Number	Description

Music Accessories - Speakers cont

S2333 — H8CC8" In Wall/Ceiling Round Speaker

Dimensions	27.3cm Diameter
Cutout Dimensions	23.8cm
Mounting Depth	9.6cm
Shipping Weight	3.8kg (pair)
Frequency Responses	50Hz ~ 20kHz ± 4kHz
Impedence	Compatible w/8ohm Output
Efficiency (dB 1w/1m)	90dB
Nominal Power	100 watts
Max Power	200 watts
Driver Complement	
Mid-Bass	20cm Mineral Filled Kevlar Cone
Tweeter	2.5cm Dome in Swivel Mount
Colour/Finish	Matte/White (Paintable)
Aimable Tweeter	Yes

S2505 — H50DW 5" Outdoor Speaker

Dimensions	24cm H x 18.5cm W x 16.5cm
Shipping Weight	6.3 kg (pair)
Frequency Responses	65Hz-20kHz
Impedence	Compatible w/8ohm Output
Efficiency (dB 1w/1m)	89 dB
Recommended Amp	20 - 60 watts/channel
Driver Complement	
Mid-Bass	13.34cm Polypropylene Cone Rubber Suspension
Tweeter	2.5 cm Titanium Hard Dome
Colour/Finish	Matte/White (Paintable)

S2334 — H10SW 10" Subwoofer Speaker

Dimensions	36.51cm H x 35.56cm W x 40.96cm
Shipping Weight	7.7kg (each)
Frequency Responses	35Hz-20OHz/40Hz-160Hz
Sub Amp Dynamic Power	100 watts
Crossover frequency	Adjustable 80Hz-200Hz
Drive Unit Complement	
Bass	25.4cm Woofer
Port	Front Panel Flared Port
Inputs	Speaker, Line Level
Outputs	Speaker Level
Colour/Finish	Matte Black

Notes

Notes

Notes

DAS
DIRECT ALARM SUPPLIES
A **Hills** Company

Head Office
NSW
Riverwood
10-12 Wiggs RD
Riverwood NSW 2210
Ph: (02) 9717 5222
Fax: (02) 9717 5221
Service: 1800 252 213

NSW
Chatswood
23/376-380 Eastern Valley Way
Chatswood NSW 2067
Ph: (02) 8467 1467
Fax: (02) 8467 149

NSW
Granville
12 Wentworth St
Granville NSW 2142
Ph: (02) 9897 7722
Fax: (02) 9897 9477

NSW
Rosebury
Unit 4/39 -47
Mentmore Ave
Rosebury NSW 2018
Ph: (02) 9698 9698
Fax: (02) 9319 1379

ACT
Fyshwick
Unit 1/43 Collie St
Fyshwick ACT 2609
Ph: (02) 6280 9630
Fax: (02) 6280 9632

QLD
Bowen Hills
4/276 Abbotsford Rd
Bowen Hills QLD 4006
Ph: (07) 3252 5512
Fax: (07) 3252 5531

QLD
Ashmore
7/179-181 Currumburra Rd
Ashmore QLD 4214
Ph: (07) 5597 7203
Fax: (07) 5597 3900

QLD
Townsville
Ph: (07) 4755 1270
Fax: (07) 4755 1271

WA
Balcatta
Unit 1/1 Natalie Way
Balcatta WA 6021
Ph: (08) 9240 4420
Fax: (08) 9240 4313

VIC
Coburg
Factory 5/51 Moreland Rd
Coburg VIC 3058
Ph: (03) 9383 2066
Fax: (03) 9383 2173

VIC
Rowville
1/16 Viewtec Pl
Rowville VIC 3178
Ph: (03) 9755 6922
Fax: (03) 9755 7311

TAS
Hobart
219B Murray St
Hobart TAS 7000
Ph: (03) 6234 9455
Fax: (03) 6234 9962

SA
Edwardstown
24 Raglan Ave
Edwardstown SA 5039
Ph: (08) 8375 9900
Fax: (08) 8375 9999

Hills
Electronic Security
New Zealand

Auckland, Penrose
124-128 Hutt Rd
Penrose Auckland
Ph: (09) 525 8007
Fax: (09) 525 8009

Auckland, Albany
Unit A1A
5 Douglas Alexander Pde
Nth Harbour Industrial Estate
Albany Auckland
Ph: (09) 525 8007
Fax: (09) 415 7421

Christchurch, Sydenham
Unit 5/235 Waltham Rd
Sydenham Christchurch
Ph: (03) 374 6277
Fax: (03) 374 6287

Wellington, Lower Hutt
1B Downer St
Lower Hutt Wellington
Ph: (04) 939 9355
Fax: (04) 939 9366

Hills
Antenna &
TV Systems

Head Office
NSW
Riverwood
12 Wiggs Road
Riverwood, NSW 2210
Ph: (02) 9717-5290
Fax: (02) 9717-5226

VIC
Keysborough
Cnr Cambria & Bridge
Keysborough, VIC 3173
Ph: (03) 9238-2533
Fax: (03) 9238 2535

QLD
Acacia Ridge
69 Activity Street
Acacia Ridge, QLD 4110
Ph: (07) 3344-3855
Fax: (07) 3344-4866

WA
Malaga
448 Victoria Road
Malaga, WA 6090
Ph: (08) 9442-5633
Fax: (08) 9442-5644

SA
Edwardstown
20 Raglan Avenue
Edwardstown, SA 5039
Ph: (08) 8371-0277
Fax: (08) 8371-1519

SA
Edwardstown
7 Ackland Street
Edwardstown, SA 5039
Ph: (08) 8371-3663
Fax: (08) 8371-1519

AUCKLAND
East Tamaki
114 Harris Road
East Tamaki Auckland
Ph: (09) 274-6509
Fax: (09) 274-1063